

Subject: Proposed Base Services for Next Collection Contract

Report to: Public Works Committee

Report date: Tuesday, January 8, 2019

Recommendations

- 1. That, based on the results of the stakeholder engagement process, the Request for Proposals for Niagara Region's next garbage, recycling and organics collection RFP BE APPROVED to be issued with the following, subject to final comments from Local Area Municipalities:
 - a) Pricing for the following garbage collection frequency options:
 - i) Every-other-week (EOW) garbage collection for all residential properties and for those Industrial, Commercial & Institutional (IC&I) and Mixed-Use (MU) properties located <u>outside</u> Designated Business Areas (DBAs), as a <u>base</u> service (weekly recycling and organics to continue, and current garbage container (bag/can) limits would double for affected sectors, on an EOW basis), and
 - ii) Status quo weekly base garbage collection service.
 - b) Establishment of a four (4) item limit per residential unit, <u>per collection</u>, for large item collection at Low-Density Residential (LDR) properties, as a <u>base</u> service.
 - c) Discontinuation of appliances and scrap metal curbside collection at LDR properties, as a <u>base</u> service.
 - d) Change the weekly garbage container (bag/can) limits for Industrial, Commercial & Institutional (IC&I) and Mixed-Use (MU) properties located <u>inside</u> Designated Business Areas (DBAs) from seven (7) containers to four (4) containers per property, as a <u>base</u> service.
 - e) Change the weekly garbage container limit for MU properties located <u>outside</u> DBAs from six (6) containers to four (4) containers per property, as a <u>base</u> service.
- 2. That Report PW 3-2019 and Council's resolutions, along with the Metroline stakeholder consultation report, when finalized, **BE CIRCULATED** to the Local Area Municipalities, for their review, and comments to be provided by February 1, 2019 or no later than February 20, 2019; and,

3. That staff **BE DIRECTED** to provide a follow-up report on the position of the Local Area Municipalities on the base and enhanced services to be included in the next garbage, recycling and organics collection contract Request for Proposals.

Key Facts

- Niagara Region's next garbage, recycling and organics collection contract is set to begin by March 8, 2021.
- The preparation for the next collection contract provides an opportunity to complete
 a service delivery review to improve program effectiveness (i.e. increase diversion of
 waste from disposal) and efficiencies (i.e. mechanisms to reduce costs and changes
 to service to reflect usage).
- On April 12, 2018, Regional Council approved WMPSC-C 9-2018, which identified the proposed base collection services options to be included in the stakeholder consultation and engagement process.
- The purpose of this report is to seek Council's approval of the proposed base collection services being recommended for inclusion in Niagara Region's next collection RFP, based on the results of input received during the stakeholder consultation and engagement phase, subject to further input from Local Area Municipalities (LAMs).
- Niagara Region is consulting with LAMs on the proposed base collection service changes and to confirm which enhanced collection services they would like included in the next collection RFP.

Financial Considerations

It is estimated that without any changes to the existing collection service levels to be provided in Niagara Region's next contract, the annual contract cost could be greater than \$25 million in 2021. This is based on an average of the bids received for the current collection contract, plus annual escalation of 1.9%. Factors such as, but not limited to, the increase in minimum wage and driver shortages will more than likely impact pricing.

The primary financial implications of implementing the proposed recommendations include:

- Final consideration of inclusion of EOW garbage collection in the next collection contract would occur after pricing is received for this option. As a point of reference:
 - In response to Niagara Region's last collection contract RFP, excluding one submission anomaly, on average bidders priced a cost reduction of approximately \$1.2 million annually for EOW garbage collection.
 - Region of Waterloo's implementation of EOW garbage collection in their 2017 contract resulted in an annual contract savings of approximately \$1.5 million.

- Elimination of Niagara Region's annual contract cost to provide appliance and scrap metal curbside collection, which currently is approximately \$130,000.
- Incremental cost avoidance for the proposed weekly large item and garbage container limit changes, which would likely be offset by incremental increases in the organics and recycling collection costs, based on anticipated increased participation in diversion programs.
- Extended site life for open Regional landfills, and more revenue generating capacity from the reduction of divertible materials being landfilled by residents and other service users who are participating in the curbside recycling and organics collection programs.
- Cost avoidance/cost reduction in the landfill contract with Walker Environmental due to an increase in the diversion of waste from disposal.
- Increased tonnages of food and organic waste collected at the curb from improved participation and capture rates would result in increased processing contract costs, unless the tonnages are offset by food waste avoidance and other reduction initiatives.
- Reduced methane emissions due to the reduction of organics being landfilled will
 result in less leachate generated, thereby reducing costs associated with care
 and control of these landfill sites.

Analysis

A) BACKGROUND

Current Collection Contracts:

Niagara Region's current collection contracts with Halton Recycling Ltd., doing business as Emterra Environmental, and Waste Connections of Canada Inc. expire March 7, 2021. Niagara Region recently awarded a new collection contract for the municipalities of Lincoln and West Lincoln to Canadian Waste Management Inc. from January 2, 2019 until March 7, 2021. These contracts include provision of base and enhanced collection services, which are defined as follows:

i) Base Collection Services

Niagara Region currently provides base collection services (i.e. weekly garbage, recycling, and organics) to all property types, including IC&I and MU properties located inside and outside DBAs, in all 12 Local Area Municipalities (LAM). Each LAM pays a proportional share of this cost, based on their total household units, as a percentage of the Region's total household units.

Appendix 1 provides a comparison of the current vs. proposed base collection services for each property type.



ii) Enhanced Collection Services

Niagara Region also provides enhanced collection services (i.e. street litter, front-end garbage, additional garbage container limits, increased garbage or recycling collection frequency, etc.), at the request of each LAM. Each LAM directly pays for the cost associated with providing their enhanced collection services. Each LAM was requested to verify which enhanced collection services they would like included as part of Niagara Region's next collection RFP.

Appendix 2 provides a detailed comparison of the current vs. previous enhanced collection services provided in each LAM.

Current Residential Diversion Rate:

Over the past seven years, Niagara Region's residential diversion rate has increased from 42% (2010) to 56% (2017), however this rate may be plateauing. In preparation for the next contract, Niagara Region is investigating options to increase participation in the recycling and organics diversion programs, such as EOW garbage collection and mandatory use of clear garbage bags. Experience in other Ontario jurisdictions demonstrates that EOW garbage collection is an effective mechanism to increase diversion. It is a best practice in Ontario and the highest residential diversion rate primarily attributable to EOW was in York Region (66% in 2016). While Niagara has achieved its 2016 residential diversion target of 56%, additional mechanisms are needed to achieve the 2020 target of 65%. These mechanisms also include improved recognition of waste reduction and reuse efforts, which traditionally are more difficult to measure.

Estimated Landfill Capacity:

At the time of this report, approval for the Humberstone Landfill expansion is expected to be finalized before the end of 2018. This landfill expansion will provide capacity for an estimated 25 years or more, based on serving the southern Niagara municipalities. The current remaining capacity at the Niagara Road 12 Landfill is 48 years, based on serving the municipalities of Pelham, Grimsby, Lincoln and West Lincoln. Niagara Region's current disposal contract with Walker Environmental for the remaining Niagara municipalities ends in February 2031, or just over 12 years.

In order to ensure long term disposal capacity is available, Niagara Region staff are:

- Initiating the RFP for the Long Term Waste Management Strategic Plan in 2019-2020.
- ii) Participating in the Municipal Mixed Waste Processing (MWP) Working Group, which has the objective to "identify collaboration opportunities and specific information needs, actions and timelines, in order to determine the feasibility of jointly implementing waste management policies, programs and/or facilities", which includes alternative technology facilities.
- iii) Continuing to engage other neighbouring municipalities in discussions related to available capacity at their current/future alternative waste management technology

facilities and future needs that could be addressed by partnering on alternative technologies.

B) PROPOSED BASE COLLECTION OPTIONS

The following proposed base collection options were included as part of the stakeholder consultation and engagement phase for Niagara Region's next collection contract:

- 1) Change the weekly garbage container (bag/can) limits for IC&I and MU properties located <u>inside</u> DBAs from seven (7) containers to four (4) containers per property.
- 2) Change the weekly garbage container limit for MU properties located <u>outside</u> DBAs from six (6) containers to four (4) containers per property.
- 3) Every-other-week (EOW) collection for garbage only (weekly recycling and organics to continue) for all sectors <u>outside</u> DBAs:
 - Current garbage container limits would double for all sectors (i.e. LDR properties would be allowed to set out two (2) garbage containers, on an EOW basis).
 and/or
- 4) Mandatory use of clear bags for garbage, with the option of allowing an opaque privacy bag to be placed inside the clear bag:
 - The clear bag program will be for all sectors (both inside and outside DBAs).
- 5) Establishment of a four (4) item limit per residential unit, per collection, for large item collection at LDR properties, and, if requested by LAMs, as an enhanced collection service at eligible Multi-Residential (MR) and MU properties.
- 6) Discontinuation of appliances and scrap metal collection at LDR properties.

Rationale for Proposed Base Collection Options:

The following rationale was taken into consideration when determining which collection options were recommended for consultation:

- 1) Increasing participation and capture rates in the Region's recycling and organics diversion programs and extending existing landfill site capacity;
 - Nearly 50% of low density residential garbage is organic waste and only 48% use the residential Green Bin program;
 - IC&I and MU audits show diversion programs underutilized.
- 2) Benchmarking collection services, based on the best practices and/or major trends observed from the service levels provided at Niagara's 13 municipal comparators that would result in financial, environmental and/or social benefit e.g. contract cost avoidance and increased diversion though the implementation of EOW garbage collection.
- 3) Reflecting actual service usage based on results of curbside audits and other collection monitoring/measurements and contract cost avoidance for services with limited usage:
 - 99% of properties using the large item service set out 4 items or less and 92% of the total bookings were for 4 or less items.
 - Appliances and scrap metal:
 - Tonnages have decreased by 94% since 2007;

- Items can be recycled, at no cost, at the Region's Drop-off Depots, or by scrap metal haulers/dealers;
- Only 6% of properties are using the service.
- 4) Standardizing base garbage collection limits across similar sectors to improve service delivery and program communication, increase participation and capture rates in diversion programs, potentially avoid contract costs for a service level which is not needed and reduce contract complexity – this specifically includes consistent base garbage collection container (bag/can) limits for the IC&I and MU sectors inside and outside DBAs;
 - Average number of garbage containers placed out per week:
 - IC&I properties inside DBAs was 2.1;
 - MU properties inside DBAs was 2.0;
 - MU properties outside the DBA is 2.4.
 - Proposed four (4) garbage container limit should meet the set-out needs of the IC&I and MU properties, based on these audit results, particularly if diversion services are utilized. IC&I properties outside DBAs already have a base four (4) garbage container limit in place.

The associated rationale for each proposed base collection option and the curbside setout audit data for the IC&I and MU sectors are included in more detail in Appendix 3.

C) STAKEHOLDER CONSULTATION AND ENGAGEMENT PHASE

The stakeholder consultation and engagement phase was referred to as "Let's Talk Waste Niagara".

Stakeholder consultation and engagement began in May 2018 and was carried out in two phases:

- 1) Targeted Stakeholder Consultation
- 2) Broad-based Community Consultation

1) <u>Targeted Stakeholder Consultation:</u>

Various stakeholder groups were targeted for consultation to provide input on the proposed collection options being considered for Niagara Region's next contract. These stakeholder groups included:

- a) Regional Departments and Agencies, Boards and Commissions (ABCs) (i.e. Niagara Region's Planning and Development Services Department, Niagara Regional Housing, and Niagara Region's Economic Development);
- b) Waste Management Advisory Committee (WMAC);
- c) Organizations Representing Businesses (i.e. Business Improvement Associations, Chambers of Commerce, Niagara Tourism Agencies, and Niagara Industrial Association);
- d) LAMs (i.e. municipal staff and Councillors).

The formal input on the proposed collection options was received from the following targeted stakeholder groups:

a) Regional Departments and ABCs:

- Niagara Region's Planning and Development Services:
 Niagara Region's Planning and Development Services noted the proposed options align with and support policy 4.2.9.1 d) i) of the Growth Plan, which relates to waste management. Staff also reviewed the proposed container limit changes pertaining to MU properties inside and outside DBAs, to ensure alignment with broader Corporate initiatives, including the objectives of Growth Management policies. Based upon their review, it was anticipated that smaller MU developments would not be affected by the proposed change in container limits.
- ii) Niagara Regional Housing: Niagara Regional Housing reviewed the relevant proposed collection options and indicated they would not be in support of EOW garbage collection, or mandatory use of clear bags for garbage at their properties.
- iii) Niagara Region's Economic Development:
 Niagara Region's Economic Development indicated that their work generally
 revolves around larger industrial companies, which would not use the Region's
 curbside garbage collection service, and would not be impacted by the proposed
 collection options.

b) Waste Management Advisory Committee (WMAC)

A meeting was held with members of the WMAC on November 21, 2018 to discuss the proposed collection options and obtain their formal comments. The WMAC members voted all in favour or majority in favour of all of the proposed collection options.

c) Organizations Representing Businesses (ORBs):

Meetings were held with representatives from each of Niagara's local Business Improvement Associations (including LAM staff), Chambers of Commerce, Niagara Tourism Agencies, Niagara Economic Development Corporation, and Niagara Industrial Association, during the months of July, August and September. The dates of these meetings can be found in Appendix 5.

The purpose of these meetings was to:

- Discuss the proposed collection options;
- Obtain their preliminary input on these options;
- · Obtain their input on how to further engage their members; and,
- Request their formal comments on the proposed collection options by November 30, 2018.

The following ORBs provided formal comments on the proposed collection options for the next contract:

- Queen Street BIA, Niagara Falls
- Victoria Centre BIA, Niagara Falls
- St. Catharines Downtown Business Association
- Port Dalhousie Business Association
- Grimsby Downtown Improvement Association
- Pelham Business Association

A copy of the ORB's comments were provided to the respective LAM, for their consideration, and are included in Appendix 4.

Based on the comments received, there was limited support for the mandatory use of clear bags for garbage, or the reduction in the garbage container limits for IC&I and MU properties inside the DBAs.

d) Local Area Municipalities (LAMs)

Correspondence on the proposed collection options and enhanced collection services was sent to LAM Clerks and Public Works Officials (PWO) in May 2018, for their review and comment.

Niagara Region made presentations on the proposed collection options at several PWO meetings during 2018. In addition, Region staff offered to attend LAM Committee or Council meetings to make a presentation. As of December 19, Region staff were requested to present at the following LAM Committee or Council meetings:

- Grimsby Council (December 17, 2018)
- Niagara-on-the-Lake Council (January 7, 2019)
- Lincoln Council (January 14, 2019)
- Niagara Falls Council (January 15, 2019)
- Fort Erie Council (January 21, 2019)
- West Lincoln Council (January 21, 2019)
- Welland General Committee (January 22, 2019)

Town of Grimsby

Town of Grimsby Council, at its December 17, 2018 meeting, approved the eight recommendations, which were included in Report DPW18-42:

- 1) Implement EOW garbage collection for all residential properties and for those IC&I and MU properties located <u>outside</u> the Grimsby DIA area, as a base service.
- 2) Do not implement clear garbage bags.
- 3) Establish a four-item limit for large item collection, per residential unit.
- 4) Provide large-item collection at MR buildings with 7 or more residential units and MU properties with 1 or more residential unit.
- 5) Discontinue appliances and scrap metal curbside collection at LDR properties.
- 6) Reduce the number of garbage bags/containers for IC&I and MU properties <u>inside</u> the DIA area from 7 to 4 per week, as a <u>base</u> service.
- 7) The Town's enhanced service and extra payment for collection <u>inside</u> the Grimsby DIA area remain at two collection days per week but changed to Tuesdays and Fridays and that the number of garbage bags/containers be reduced from 12 per pick-up day to 6 per pick-up day (12 per week), resulting in the Town's Enhanced service payment being reduced from 17 bags/containers per week to 8.
- 8) The number of garbage bags/containers for MU properties <u>outside</u> the Grimsby DIA area be reduced from 6 to 4 per week, or 8 containers under EOW garbage collection, as a base service.

Formal comments from the remaining LAMs on the proposed base collection options and which enhanced services are to be included in Niagara Region's next contract are requested by February 1, 2019 or no later than February 20, 2019.

2) Broad-based Community Consultation:

In addition to targeted stakeholder consultation, a broad-based community consultation was undertaken with the following stakeholder groups:

- LDR households;
- MR property owners, groups and associations (i.e. property management companies);
- IC&I and MU property owners

This broad-based community consultation included the following activities and approaches:

- a) Promotion & Outreach;
- b) Surveys;
- c) Public Open Houses and Community Booths;
- d) Social Media; and
- e) Waste Management Info-Line and Website.

a) Promotion & Outreach:

The following mediums were used during the last week of October and the entire month of November to promote community consultation on the proposed collection options:

(i) Niagara Region's Website

- (ii) Social Media (i.e. Facebook paid ads and posts and Twitter posts) with a link to the "Let's Talk Waste" webpage;
- (iii) Letters sent to IC&I, MU and MR properties, which use Region's curbside garbage;
- (iv) Newspaper Advertisements (i.e. print and on-line);
- (v) Media Coverage (i.e. Cogeco YourTV, 610 CKTB, newspaper articles);
- (vi) Postcards (Regional and Municipal offices)

Details on each of the various promotional mediums can be found in Appendix 5.

b) Surveys:

A Request for Proposal was awarded to Metroline Research Group to undertake quantitative research to determine whether there was sufficient support for recommending the proposed collection options. The following surveys were completed:

- (i) On-line surveys were completed by 6,639 LDR households, 38 MR and 166 IC&I and MU properties (86 outside DBAs and 80 inside DBAs);
- (ii) Telephone survey of 1,253 LDR households;

Based on preliminary results, as of December 17, 2018, strong support for the following options occurred:

- Establishment of a four (4) item limit per residential unit, per collection, for large item collection at LDR properties, as a base service.
- Discontinuation of appliances and scrap metal curbside collection at LDR properties, as a <u>base</u> service.

However, no clear LDR support for EOW garbage collection or mandatory use of clear garbage bags was demonstrated in the survey results:

- LDR households were roughly split on supporting EOW garbage collection with slightly more leaning towards continuing their weekly collection.
- Opposition to the mandatory use of clear garbage bags was apparent, particularly from the on-line survey (73% of LDR households opposed).

In order to determine the order of preference for clear garbage bags versus EOW garbage collection (or both), all survey respondents were asked to make a program choice. The below table highlights the results from all stakeholder groups, with the exception of IC&I and MU inside DBAs who would not receive EOW garbage collection, and in many cases receive enhanced services.

	LD	R	MR	IC&I and MU Outside DBAs
	Telephone	On-line	On-line	On-line
Clear Bag	33%	17%	29%	36%
EOW	27%	33%	13%	15%

	LD	R	MR	IC&I and MU Outside DBAs
Both Clear Bag and EOW	21%	12%	18%	7%
Neither ¹	19%	38%	40%	42%

1. In the telephone survey, LDR households could not see the option of 'neither' and the interviewer worked to obtain a choice, which is why this option has a much lower response than in the on-line surveys.

In the case of the IC&I and MU sectors:

- Majority of those property owners (58% of 43 respondents) receiving base garbage collection inside the DBAs indicated they can manage if the container limit is reduced from seven (7) containers to four (4);
- Majority of those property owners (65% of 43 IC&I respondents and 74% of 35 MU respondents) outside the DBAs support continuing the current level of service.

A more detailed description of results is provided below.

(i) On-line Surveys:

On-line surveys were developed to obtain formal input from various stakeholder groups (i.e. LDR, MR, IC&I and MU) on the proposed collection options. These on-line surveys were open to all residents and businesses receiving Niagara Region's curbside garbage collection service.

A total of 6,639 on-line surveys were completed by LDR households, 38 on-line surveys by MR households, and 166 on-line surveys by IC&I and MU properties. There were no controls to limit the regions or populations for survey participants. However, Metroline monitored and deleted any duplicate survey submissions.

The highlights of the on-line survey results for each sector are included below.

LDR:

- 43% would be able to manage with EOW garbage collection;
- o 62% would not support mandatory use of clear bags for garbage;
- 33% would choose the option of EOW garbage collection; 17% clear bags;
 12% both EOW and clear bags; and 38% neither option;
- 72% would not be impacted with placing a maximum limit of four large items per weekly collection;
- 61% would not be impacted with the elimination of curbside collection of appliances/scrap metal

MR:

37% would be able to manage with EOW garbage collection;

- 42% would not support mandatory use of clear bags for garbage;
- 13% would choose the option of EOW garbage collection; 29% clear bags;
 18% both EOW and clear bags; and 40% neither option

• IC&I and MU Inside DBAs (Base Collection):

- 58% could manage if the weekly base container limit was reduced from seven to four containers;
- 46% of IC&I and 49% of MU properties would not support mandatory use of clear bags for garbage

• IC&I and MU Inside DBAs (Enhanced Collection):

- o 66% feel they need to maintain their current container limits;
- o 87% feel they need to continue with their current frequency of collection

IC&I and MU Outside DBAs (Base Collection):

- 66% of MU properties could manage if the weekly base container limit was reduced from six to four containers;
- 35% of IC&I and 26% of MU properties would be able to manage with EOW garbage collection
- 38% of IC&I and 63% of MU properties would not support mandatory use of clear bags for garbage

(ii) Telephone Survey:

Metroline conducted a random telephone survey of residents living in LDR properties. In total, 1,253 surveys were conducted, which can be considered statistically accurate to within +/-2.8%, 19 times out of 20 (95% Confidence Interval). The sample was divided between the 12 LAMs, with minimum of 75 surveys was completed in each.

The highlights of the telephone survey results are included below:

• LDR:

- 46% would be able to manage with EOW garbage collection;
- o 38% would not support mandatory use of clear bags for garbage;
- 27% would choose the option of EOW garbage collection; 33% clear bags;
 21% both EOW and clear bags; and 19% neither option;
- 89% would not be impacted with placing a maximum limit of four large items per weekly collection;
- 75% would not be impacted with the elimination of curbside collection of appliances/scrap metal

Additional details on the LDR on-line and telephone survey results can be found in Appendix 8.

c) Public Open Houses and Community Booths:

Niagara Region conducted one public open house and one community booth event in each of Niagara's 12 LAMs during the month of November. The dates and locations of these events can be found in Appendix 6.

The purpose of these events was to engage participants on the proposed collection options and request their input on the proposed collection options through completion of the on-line survey. There were over 500 participants that attended these various events held across the region.

The majority of comments received were related to the options for EOW garbage collection and mandatory use of clear garbage bags. Participants attending the community booths and open houses were divided about every-other-week garbage collection. While approximately half of the participants expressed their support, there were some specific concerns that were repeated throughout the consultation process. There was less support for clear bags, with the majority of participants expressing opposition to this option.

A minority of the feedback and conversations at these events dealt with the options to introduce a four-item limit on large item collection and the discontinuation of appliances and scrap metal curbside collection, but of those commenting, there was a high level of support to implement these changes.

Appendix 4 provides a summary of the more commonly-repeated concerns raised during these events.

d) Social Media:

Facebook was the primary social media platform used by stakeholders to comment on the proposed collection options for the next contract. The majority of comments were related to the proposed options for the mandatory use of clear garbage bags and every-other-week garbage collection. Of all the comments documented that were related to every-other-week garbage collection, 22% of comments were in support of this proposed option. For clear garbage bags, 10% of comments related to this option were supportive.

Overall, the majority of commenters used this platform as a means of communicating their concerns. The comments posted on the Region's paid Facebook advertisement were reviewed, categorized and tallied. As of November 30, 2018, there were 1,467 Facebook comments were posted.

Appendix 4 provides a summary of the ten most frequently reported concerns, in order of the frequency that they appeared in the comments section.

e) Comments from Niagara Region's Waste Management Info-Line and Website:
A total of 65 comments/inquiries on the proposed collection options were received and responded to by staff through Niagara Region's Waste Management Info-Line, Website or by email in either June, October, or November.

D) OVERVIEW OF KEY RECOMMENDATIONS

1. <u>Base Collection Service Changes</u>

As a result of the stakeholder engagement and consultation process, the following key recommendations are being made:

a) EOW Garbage Collection

Based on best practices and experience with EOW garbage collection in Niagara's municipal comparator group (municipalities with populations greater than 300,000) and the potential for significant cost reduction, it is recommended that this option be included for pricing in the next collection contract RFP, for comparison with weekly garbage collection frequency. Although there was no clear stakeholder support and Niagara Regional Housing expressed opposition to this option, municipalities who have implemented this change note that residents do adapt and increase their diversion efforts, as a result.

EOW garbage collection would apply to all residential properties and those Industrial, Commercial & Institutional (IC&I) and Mixed-Use (MU) properties located <u>outside</u> Designated Business Areas (DBAs), as a <u>base</u> service (weekly recycling and organics to continue, and current garbage container (bag/can) limits would double for affected sectors, on an EOW basis).

b) Limit on Large Item Collection

Establishment of a four (4) item limit per residential unit, per collection, for large item collection at LDR properties, as a <u>base</u> service is recommended, based on actual usage statistics and responses from a majority of survey respondents.

c) Discontinuation of Appliances and Scrap Metal

Discontinuation of appliances and scrap metal curbside collection at LDR properties, as a <u>base</u> service is recommended based on actual usage statistics and responses from a majority of survey respondents.

d) Weekly Base Garbage Container Limits Inside DBAs

Changing the weekly garbage container limits for IC&I and MU properties located <u>inside</u> Designated Business Areas (DBAs) from seven (7) containers to four (4) containers per property, as a <u>base</u> service, is recommended, based on actual usage statistics and responses from a majority of base service user on-line survey respondents. Although the base garbage container limit would decrease, eligible IC&I and MU properties inside the DBAs have unlimited organics and recycling collection once weekly, but currently

these diversion programs are underutilized. It should be noted that of the six (6) ORBs that provided formal comment, only one (1) supported this change.

e) Weekly Base Garbage Container Limits Outside DBAs Changing the weekly garbage container limit for MU properties located <u>outside</u> DBAs from six (6) containers to four (4) containers per property, as a <u>base</u> service, is recommended, based on actual usage statistics and to achieve a standardized base collection service across all similar sectors (in combination with option d) above). This will reduce service and contract complexity and improve program communication across the region. This change is also expected to result in increased diversion efforts, as the current unlimited recycling and organics program for all eligible IC&I and MU properties are currently underutilized. The IC&I sector outside the DBAs has had four (4) container limit per property, as a <u>base</u> service since March 2011. However, it should be noted that out of the 43 MU survey respondents, only one third felt they could manage if this change was made.

While the initial list of all proposed options is supported by WMAC and Niagara Region's Planning and Development Services noted the options align with and support policy 4.2.9.1 d) i) of the Growth Plan, which relates to waste management, one of the options is not recommended for implementation based on the general lack of support from survey respondents. The use of mandatory clear garbage bags will continue to be monitored for potential future implementation but based on existing data from Ontario jurisdictions, EOW garbage collection is expected to have more of a positive financial and diversion performance impact.

In order to address the concerns and comments received on the proposed options being recommended for inclusion in the next collection contract, Appendix 7 proposes potential solutions to minimize impact of the change(s) on the service user. This appendix will continue to be developed and expanded, as required.

2. Enhanced Collection Service Changes

Niagara Region is requesting that LAMs confirm existing or new enhanced services that should be provided as part of the next collection contract. There are three areas that should be specifically addressed:

- a) In those LAMS that provide enhanced garbage collection service to DBAs, Regional staff have been engaged in discussions with Local Public Works Officials on one or more of the following proposals for the IC&I and MU sectors, based on usage of current garbage collection service and underutilization of the diversion programs:
 - Reducing DBA garbage container limits;
 - · Reducing frequency of DBA garbage collection; and
 - Increasing recycling and/or organics collection service to align with frequency of garbage collection.

- b) Provision of enhanced bulky goods collection to those households in MR buildings with seven (7) or more residential units (garbage limit of a maximum of 12 containers per week with no tags) and MU properties with one (1) or more residential unit (garbage limit of a maximum of seven (7) containers per week outside the DBA and a maximum of six (6) containers per week inside the DBA), that receive the Region's curbside base garbage collection and/or to those MR building receiving enhanced Regional containerized front end garbage collection service:
 - These properties must be participating in the Region's diversion programs (i.e. recycling and organics) in order to qualify to receive this service.
 - This service would be provided in a manner that is parallel to the approved service for the LDR sector.
- c) Verification if any municipality would like to include a per stop price for in-ground public space recycling and litter bins and/or for in-ground IC&I, MR and/or MU properties (all streams), as an enhanced service under provisional items.

3. Contract Service Improvements

As outlined in Report WMPSC-C 9-2018, staff will be pursuing the following service improvements in the next collection contract RFP:

- a) Potential changes to how the Region collects leaf and yard waste (L&YW) and brush at LDR households, which would be a seamless change to residents:
 - In addition to the current service level, the Region would obtain pricing to provide an additional four weeks of dedicated L&YW and branch collection in the spring and the fall seasons, in the urban areas only, or potentially expanding a dedicated L&YW and brush collection to approximately ten (10) months of the year in urban areas:
 - This change would result in lower organics processing costs by separating L&YW
 material from green bin material, thereby removing this material from the GORE
 system;
 - This change would result in increased organics collection costs associated with providing these additional L&YW and branch collection service;
 - Staff will need to complete a cost-benefit analysis to determine whether the organics processing cost savings outweigh the increased collection costs before determining whether to proceed with these changes.
- b) Elimination of a current restriction that impacts IC&I properties with private garbage collection. Currently, these properties, which would otherwise have been eligible to receive curbside garbage collection, are restricted from using this service.
 - These properties must be participating in the Region's diversion programs (i.e. recycling and organics), in order to qualify to receive the curbside garbage collection service.

E) NEXT STEPS

The Region is requesting receipt of the following from LAMs by February 1, 2019 or no later than Feb 20, 2019:

- Comments/position on proposed base collection service options;
- Verification of current or additional enhanced services this would include:
 - Services to IC&I and MU properties inside DBAs;
 - Provision of enhanced large item collection service to MR and MU residential units, in a manner parallel to the service provided to the LDR sector (i.e. if LDR has a 4 item limit per unit per collection day, this would also apply to MR and MU residential units);
 - Inclusion of a per stop price for in-ground public space recycling and litter bins and/or for in-ground IC&I, MR and/or MU properties (all streams), as an enhanced service under provisional items.

The milestones for the collection contract RFP development are outlined below:

- Report to Public Works Committee (PWC) and Council on results of stakeholder consultation and engagement (PWC January 8, 2019 and Council January 17, 2019);
- Receipt of each LAM's position on base and enhanced services (no later than February 20, 2019);
- Council approval of service levels to be included and RFP development initiated (Q2 to Q3 2019);
- RFP issuance (early Q4 2019);
- Award of new collection contract (Q1 2020);
- One year for successful bidders to order/receive their fleet of collection vehicles (Q1 2020 to Q1 2021);
- Start of new contract (March 8, 2021).

Alternatives Reviewed

Niagara Region investigated the option of switching over to cart-based collection for the next collection contract. Under the Province's Environmental Plan, waste diversion programs, such as the Blue Box Program, may be moving to the producer responsibility model. As a result, Niagara Region would no longer be responsible for providing collection and processing of Blue Box materials. This would be the responsibility of the Blue Box industry stewards. Therefore, at this time, staff did not believe implementing major program changes was advisable.

Also, based on the experiences of other municipalities that implemented a cart-based collection program, this option was not recommended for further consideration for the following reasons:

1) Significant capital costs to purchase and distribute the carts

- 2) On-going annual maintenance and replacement costs associated with the carts
- 3) Higher contamination rates of the recycling and organics streams associated with the use of carts. As a result, there would be a decrease in the Region's revenues and difficulty with marketing the recyclables.
- 4) Additional costs associated with retrofitting Niagara Region's Materials Recycling Facility from the current two-stream operation to a single-stream operation, if all recyclables are collected in one cart.

Based on the results received during the stakeholder consultation and engagement phase, the following proposed collection option is not being recommended for implementation, as part of Niagara Region's next collection contract:

1) Mandatory use of clear bags for garbage, with the option of allowing an opaque privacy bag to be placed inside the clear bag

Relationship to Council Strategic Priorities

The recommendation to approve the proposed base collection services for Niagara Region's next collection contract supports Council's Strategic Priority of Investment, Innovation and Entrepreneurship.

Other Pertinent Reports

- CWCD 357-2018 Let's Talk Waste Niagara Stakeholder Consultation and Engagement Activities for the Proposed Waste Collection Options
- CWCD 216-2018 Fact Sheet Consultation and Engagement Strategy for Proposed Service Level Collection Options Under Consultation
- WMPSC-C 9-2018 Stakeholder Consultation and Engagement on Proposed Collection Service Changes for Next Collection Contract
- WMPSC-C 34-2017 Schedule for the Next Regional Waste, Recycling and Organics Collection Contract
- PW 42-2014 A Matter of the Security of the Property of the Municipality Bulky/ White Goods Collection Service for Multi-Residential and Mixed-Use Properties
- WMPSC-C 44-2013 Bulky/White Goods Collection Service for Multi-Residential and Mixed-Use Properties
- WMPSC-C 2-2013 Large Item Collection Service for Multi-Residential Buildings and Mixed-Use Properties
- PW 47-2012 Consultation Results on Proposed Clear Bag Pilot for Industrial, Commercial and Institutional Properties
- WMPSC 24-2011 Clear Bag for Garbage Pilot for Industrial, Commercial and Institutional Properties

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Appendix 1 - Comparison of Current vs. Proposed Base Collection Services

Property Type	Current Base Collection Service Level	Proposed Base Collection Service Level
Low-Density Residential (1 to 6 units): single-family, townhouse, semi- detached, duplex, triplex, fourplex, fiveplex, sixplex, cottages	Weekly garbage, 1 bag/can limit per residential unit	 Every-other-week garbage, 2 bag/can limit per residential unit, and/or Mandatory use of clear garbage bags
	Weekly, unlimited Blue/Grey Boxes	Weekly, unlimited Blue/Grey Boxes
	Weekly, unlimited Green Bins	Weekly, unlimited Green Bins
	Large items, with no limit per collection, per residential unit	Large items, with 4 item limit per collection, per residential unit
	Appliances and scrap metal, with no limit per collection, per residential unit	No appliances and scrap metal collection
	Weekly Leaf & Yard Waste (L&YW) and 8 brush collections per year	 Weekly L&YW and 8 brush collections per year Additional 4 weeks of dedicated L&YW and brush collections in the spring and the fall seasons, in urban areas only
Multi-Residential (7 or more units): • apartments, cottages, condominiums and rentals, nursing and retirement homes, mixed-	Weekly garbage, 1 bag/can limit per residential unit, maximum 12 bags per building	 Every-other-week garbage, 2 bag/can limit per residential unit, maximum 24 bags per building and/or Mandatory use of clear garbage bags
	Weekly, unlimited Blue/Grey Boxes or Carts	Weekly, unlimited Blue/Grey Boxes or Carts
use, rooming/ boarding houses	Weekly, unlimited Green Bins or Green Carts (by request)	Weekly, unlimited Green Bins or Green Carts (by request)

Property Type	Current Base Collection Service Level	Proposed Base Collection Service Level
	No large item collection	Provision of large item collection to properties receiving Region's curbside base or enhanced garbage collection (ELOS provided only)
	No appliances and scrap metal collection	No appliances and scrap metal collection
	No L&YW or brush collection	No L&YW or brush collection
Mixed Use Buildings – <u>Inside</u> DBA	Weekly garbage, maximum 7 bag/can limit per property	 Weekly garbage, maximum 4 bag/can limit per property and/or Mandatory use of clear garbage bags
	Weekly, unlimited Blue/Grey Boxes or Carts	Weekly, unlimited Blue/Grey Boxes or Carts
	Weekly, unlimited Green Bins/Carts	Weekly, unlimited Green Bins/Carts
	No large item collection	Provision of large item collection to residential units only, which receive Region's curbside base or enhanced garbage collection (ELOS provided only)
	No appliances and scrap metal collection	No appliances and scrap metal collection
	No L&YW or brush collection	No L&YW or brush collection
Mixed Use Buildings – <u>Outside</u> DBA	Weekly garbage, maximum 6 bag/can limit per property	 Weekly garbage, maximum 4 bag/can limit per property Every-other-week garbage collection, maximum 8 bag/can limit per property (if container limit decrease approved) and/or Mandatory use of clear garbage bags

Property Type	Current Base Collection Service Level	Proposed Base Collection Service Level
	Weekly, unlimited Blue/Grey Boxes or Carts	Weekly, unlimited Blue/Grey Boxes or Carts
	Weekly, unlimited Green Bin/Carts	Weekly, unlimited Green Bin/Carts
	No large item collection	 Provision of large item collection to residential units only, which receive Region's curbside base or enhanced garbage collection (ELOS provided only)
	No appliances and scrap metal collection	No appliances and scrap metal collection
	No L&YW or brush collection	No L&YW or brush collection
IC&I Properties – Inside DBA	Weekly garbage, maximum 7 bag/can limit per property	 Weekly garbage, maximum 4 bag/can limit per property and/or Mandatory use of clear garbage bags
	Weekly, unlimited Blue/Grey Boxes or Carts	Weekly, unlimited Blue/Grey Boxes or Carts
	Weekly, unlimited Green Bin/Carts	Weekly, unlimited Green Bin/Carts
	No large item collection	No large item collection
	No appliances and scrap metal collection	No appliances and scrap metal collection
	No L&YW or brush collection	No L&YW or brush collection
IC&I Properties– Outside DBA	Weekly garbage, maximum 4 bag/can limit per property	 Every-other-week garbage, maximum 8 bag/can limit per property and/or Mandatory use of clear garbage bags Elimination of restriction on curbside garbage collection for

Property Type	Current Base Collection Service Level	Proposed Base Collection Service Level
		IC&I properties receiving private garbage collection
	Weekly, unlimited Blue/Grey Boxes or Carts	Weekly, unlimited Blue/Grey Boxes or Carts
	Weekly, unlimited Green Bin/Carts	Weekly, unlimited Green Bin/Carts
	No large item collection	No large item collection
	No appliances and scrap metal collection	No appliances and scrap metal collection
	No L&YW or brush collection	No L&YW or brush collection

	omparison of Current vs. Previou		
Municipality	2004-11 Collection Contract	2011-21 Collection Contract	
	Street Litter Receptacle Collection		
Fort Erie	Once-per-week collection (Jarvis and Ridge Road)	 Twice-per-week collection (Jarvis St, Ridge Rd and Niagara Blvd. Once-per-week collection (Crystal Beach DBA) Once-per-week collection (Garrison Rd.) 	
	Street Litter Receptacle Collect		
	Twice-per week collection	 Three days-per-week collection Once-per-week collection on Windward Dr. 	
	Additional Curbside Waste Coll	ection	
Grimsby	 One additional garbage collection day per week in the downtown core Maximum of 12 garbage containers per property per collection day in the downtown core 	 One additional collection day per week in the downtown core Maximum of 12 garbage containers per property per collection day in the downtown core 	
	Containerized Waste Collection		
	Once-per-week collection	Once-per-week collection	
	Weekly (Blue and Grey) Recycli		
Lincoln	Once-per-week (Monday)	Every municipality with a Designated Business Area receives weekly recycling collection as part of base collection service	
	Street Litter Receptacle Collection		
Niagara Falls	 Seven days-per-week, year-round collection in Mainline business district Chippawa area collected on Thursday by residential truck and Sundays, mid-May to mid-October, as part of Mainline business district 	 Seven days-per-week, year-round collection in Mainline business district Chippawa DBA collected onceper week. One additional day per week collection from mid-May to mid-October Collection once-per-week for street litter receptacles outside the Mainline 	

	Appendix 2 – Comparison of Current vs. Previous Enhanced Collection Services			
Municipality	2004-11 Collection Contract	2011-21 Collection Contract		
	Containerized Waste Collection			
	Once or twice per week	Multi-residential buildings with		
	(Monday and/or Thursday)	varying collection frequency		
	Additional Curbside Waste Coll	ection		
	All tourist/commercial business	All tourist/commercial		
	(lodging and food outlets only)	businesses (lodging and food		
	on the Mainline receive an	outlets only) on the Mainline		
	increase to 20 garbage	receive an increase from seven		
	containers per property,	to fifteen garbage containers per		
	between July 1 to Labour Day	property, between the Victoria		
	Old Corrugated Cardboard Colle	Day weekend and Labour Day		
	Once-per-week collection (over)	No collection of old corrugated		
	two days-Thursday and Friday)	cardboard		
	Special Set-out Collection for P	l .		
	Set-out and collection service	Included in base collection		
	of standard limit garbage,	services		
	organics and recycling			
	containers			
	Additional Curbside Waste Coll	ection		
	Two additional garbage	Two additional garbage		
	collection days per week in the	collection days per week in the		
	downtown core	downtown core		
	Maximum of 20 garbage	Maximum of 20 garbage		
	containers per property for	containers per property for each		
	each collection day Old Corrugated Cardboard Colle	collection day		
	Weekly cardboard collection	Two days of curbside collection		
Niagara-on-	from commercial properties in	of cardboard from commercial		
the-Lake	the Queen Street Commercial	properties in the Queen Street		
	Area, two days per week:	Commercial Area		
	Monday and Thursday	Commercial / wea		
	Weekly (Both Streams) Recyclin	ng Cart Collection		
	Once-per-week collection	Every municipality with a		
	·	Designated Business Area		
		receives weekly recycling		
		collection as part of base		
		collection service		
	<u>l</u>	<u>l</u>		

		us Enhanced Collection Services	
Municipality	2004-11 Collection Contract	2011-21 Collection Contract	
	Street Litter Receptacle Collection		
	Once-per-week collection	Twice-per-week collection	
	Containerized Waste Collection		
	Once-per-week collection	Once-per-week collection, with the exception on one property receiving twice-per-week collection	
	Weekly (Both Streams) Recyclin		
Pelham	Once-per-week collection (Thursday)	Every municipality with a Designated Business Area receives weekly recycling collection as part of base collection service	
	Special Set-out Collection for P	hysically-Challenged Residents	
	 Set-out and collection service of standard limit garbage, organics and recycling containers 	Included in base collection services	
	Street Litter Receptacle Collection		
Port	No street litter receptacle collection	There are street litter receptacles (OMG bins) that require separate collection of Grey and/or Blue Box materials. The recycling from the compartmentalized bins are collected separately and at the same frequency as garbage containers	
Colborne	Additional Curbside Waste Coll		
Colsollic	Colborne Hospital (Monday- Friday). No container limit. • Additional garbage container limits at group homes, schools, Home Hardware	 No additional curbside waste collection as part of enhanced services 	
	Old Corrugated Cardboard Coll	ection	
	Once-per-week collection (Thursday)	Every municipality with a Designated Business Area receives weekly recycling	

Municipality	2004-11 Collection Contract	2011-21 Collection Contract	
		collection as part of base	
		collection service	
	Street Litter Receptacle Collect	ion	
	Seven days-per-week, including all parks, sports facilities and recyclables from OMG bins	 Four days-per-week collection for Downtown St.Catharines Seven days-per-week, from May 1 to October 31 inclusive, and one (1) day per week, from November 1 to April 30 inclusive in Port Dalhousie Once-per-week collection for all other street litter receptacles located on city streets, in front of schools, in sports facilities, parks, cemeteries, and recreational and community centres 	
	Containerized Waste Collection		
Ot Ooth oring	Variable frequency - multi- residential/Downtown IC&I properties and pullout service	Variable frequency - multi- residential properties	
St.Catharines	Additional Curbside Waste Coll	ection	
	Six additional collection days per week in the downtown core, over and above the Base Level of Service	 Three additional collection days per week in the downtown core, over and above the Base Level of Service Maximum of 7 garbage containers per property per collection day in the downtown core 	
	Old Corrugated Cardboard Coll	ection	
		Communal front-end cardboard containers shared by businesses in the downtown collection area	
	Weekly (Both Streams) Recyclin	ng Cart Collection	
	Once-per-week collection (Monday or Thursday)	Every municipality with a Designated Business Area receives weekly recycling collection, as part of base	

Municipality	2004-11 Collection Contract	2011-21 Collection Contract
		collection service
	Special Set-out Collection for P	hysically-Challenged Residents
	Set-out and collection service	Included in base collection
	of standard limit garbage,	services
	organics and recycling	
	containers Street Litter Receptacle Collecti	ion
		1
	 Three days-per-week collection Additional Curbside Waste Collection 	Three days-per-week collection
	Two additional collection days	Two additional collection days
Thorold	per week in the downtown	per week in the downtown core
Thorold	core	
	Additional Blue Box Collection	T
	Additional weekly collection of	Additional weekly collection of
	Blue Box recyclables for all	Blue Box recyclables for all
	commercial properties located	commercial properties located
	within the City of Thorold's BIA.	within the City of Thorold's BIA.
	Containerized Waste Collection	ı
Welland	No containerized waste	Once-per-week collection
	collection	(condo properties)
	Containerized Waste Collection	1
	Once-per-week collection	Once or twice-per-week
		collection depending on location
	Additional Curbside Waste Coll	
West Lincoln	 No additional curbside waste 	One additional collection day per
	collection	week in the downtown core
		Maximum of 7 garbage
		containers per property per
		collection day in the downtown
		core

Appendix 3 - Rationale for Proposed Collection Service Options for Next Contract

Proposed Collection Service Options:

1) Change the weekly garbage container (bag/can) limits for IC&I and MU properties located <u>inside</u> Designated Business Areas (DBA) from seven (7) containers to four (4) containers per property, as a base service.

1) Fairness & equity:

- Base Collection Service:
- based on the 2018 curbside audits:
 - average # of garbage containers placed out per week by <u>IC&I</u> properties <u>inside</u> DBAs was 2.1.
 - in 2018, audits were completed in:
 Grimsby, Welland (Downtown and North End), Port Colborne (Main St. and Downtown), Lincoln (Beamsville and Vineland), Pelham, Thorold, St. Catharines (Downtown and Port Dalhousie), Fort Erie (Ridgeway, Bridgeburg, and Crystal Beach), and Niagara Falls (Queen, Main St., Lundy's Lane, Clifton Hill and Chippawa) DBAs.
- based on the 2016 and 2018 curbside audits:
 - average # of garbage containers placed out per week by <u>MU</u> properties <u>inside</u> DBAs was 2.0.
 - in 2016, audits were completed in: Fort Erie (Ridgeway, Bridgeburg, and Crystal Beach), Welland (Downtown and North End), and Port Colborne (Main St. and Downtown) DBAs.
 - in 2018, audits were completed in:
 Grimsby, Lincoln (Beamsville and
 Vineland), Pelham, Thorold, St. Catharines
 (Downtown and Port Dalhousie), and
 Niagara Falls (Queen, Main St., Lundy's
 Lane, Clifton Hill and Chippawa) DBAs.
- the proposed 4 garbage container limit should meet the set-out needs of the IC&I and MU properties, based on these audit results, particularly if diversion services are

- 1) Potential illegal dumping:
 - if garbage container limits are decreased, there is potential for businesses and residents to illegally dump items.

Cons

- Potential for increased number of complaints from business owners, MU property owners and residents due to reduced container limit:
 - business owners may potentially complain about this reduction in container limit being provided to their property.

Pros	Cons
 utilized. the proposed 4 garbage container limit will align with the existing 4 garbage container limit for IC&I properties located outside DBAs, and the proposed limit for IC&I and MU properties located inside DBAs. it will encourage participation in diversion programs, which are under-utilized. 	
 Enhanced Collection Service: based on the 2014 garbage set-outs at enhanced IC&I properties: Grimsby (12 garbage container limit, twice per week) – average # of garbage containers placed out per set-out: 3.6 West Lincoln (7 garbage container limit, twice per week) – average # of garbage containers placed out per set-out: 2.5 Thorold (7 garbage container limit, three times per week) – average # of garbage containers placed out per set-out: 4.5 based on the 2015 garbage set-outs at enhanced Niagara Falls IC&I and MU properties: Main Street, Lundy's Lane and Queen Street DBAs – average # of garbage containers placed out per set-out: 5.2 (IC&I) and 2.9 (MU) audits were completed during the summer months, when the 15 garbage container limit was in effect for food and lodging outlets (1 collection per week). It is a 7 garbage container limit elsewhere, once/week. 	
 based on the 2018 garbage set-outs at enhanced <u>IC&I</u> and/or <u>MU</u> properties: Grimsby (12 garbage container limit, twice per week) – average # of garbage containers placed out per set-out: 1.6 (MU) West Lincoln (7 garbage container limit, twice per week) – average # of garbage containers placed out per set-out: 1.7 (MU) 	

Pros	Cons
 Thorold (7 garbage container limit, three times per week) – average # of garbage containers placed out per set-out: 1.9 (MU) NotL (20 garbage container limit, three times per week) – average # of garbage containers placed out per set-out: 6.0 (IC&I) and 6.8 (MU) St. Catharines (7 garbage container limit, four times per week) – average # of garbage containers placed out per set-out: 2.7 (IC&I) and 1.5 (MU) 	

2) Change the weekly garbage container limit for MU properties located <u>outside</u> DBAs from six (6) containers to four (4) containers per property, as a base service.

Pros	Cons
 Fairness & equity: Base Collection Service: based on the 2014 curbside audit: average # of garbage containers placed out per week by MU properties outside DBAs: 2.4 the proposed four (4) container limit would meet the set-out needs of the MU properties, based on these audit results. the proposed four (4) container garbage limit will align with the existing four container garbage limit for IC&I properties located outside DBAs, and the proposed limit for IC&I and MU properties located inside DBAs.	 Potential illegal dumping: if garbage container limits are decreased, there is potential for businesses and residents to illegally dump items. Potential for increased number of complaints from business owners, due to reduced container limit: business owners, MU property owners and residents may potentially complain about this reduction in container limit being provided to their property.

3) Every-other-week (EOW) collection for garbage only (weekly recycling and organics to continue) for all sectors <u>outside</u> DBAs, as a base service. Current garbage container limits would double for all sectors (i.e. LDR properties would be allowed to set out two (2) garbage containers, on an EOW basis).

Pros	Cons		
1) Municipal best practice/trend:	1) Potential illegal dumping:		

Pros Cons

 approximately 70% of the municipal comparators (Barrie, Durham, Halton, Markham, Ottawa, Toronto, Vaughan, Peel and Waterloo) provide EOW garbage collection service. Residents have adapted to this change.

2) Increased waste diversion:

 waste diversion rates increased between 6% (Peel) and 16% (Durham) for these municipal comparators. This depended on whether they introduced other diversion programs (i.e. organics) at the same time as EOW garbage.

3) Potential contract savings:

- annual contract savings for the municipal comparators ranged between \$200,000 (Barrie), Waterloo (\$1.5 million), and \$12 million (Peel), depending on size of the contract and any other contract changes that were implemented (i.e. EOW, carts, etc.).
 - However, Peel staff reported a one-time initial cost to implement three stream cart collection of \$35 million (based on 325,000 single-family homes), with an estimated annual maintenance and replacement cost of \$1 to 3 million.
- avoided Walker disposal costs, if there is a decrease in the volume of garbage collected.

4) Regional disposal capacity:

 preservation of existing Regional disposal capacity, if the volume of garbage landfilled decreases.

5) Fairness & equity:

 based on the 2015-16 waste composition study, Niagara's LDR properties set out an average of 0.9 garbage containers per if residents/businesses are not provided with weekly garbage collection service, there is potential for them to illegally dump items.

Potential increased number of complaints, due to reduction in service:

 Residents/businesses may complain about this reduction in garbage collection service being provided to their property.

Pros	Cons
week	

4) Mandatory use of clear bags for garbage, with the option of allowing an opaque privacy bag to be placed inside the clear bag. The clear bag program will be for all sectors (both inside and outside DBAs), as a base service.

Pros 1) Increased waste diversion: 1) P

- studies completed by Ontario's Stewardship Effectiveness & Efficiency Fund report that "clear bag programs are successful in decreasing the amount of recyclables being landfilled or incinerated, and have shown that mandatory by-laws and clear bags result in maximum participation and diversion".
- implementing clear bags resulted in a 6% increase in Markham's 2014 diversion rate, for a total diversion rate of 81%.
- residents are motivated to recycle due to social pressure.

2) Enforcement/safety:

- increases awareness of what is placed in the garbage, due to visibility of bag contents.
- eliminates (or minimizes) the option of concealing hazardous or other non-acceptable materials (e.g. recyclables and organics) in the garbage.
- facilitates education and enforcement of Niagara's Waste Management By-law, where necessary.

3) Fairness & equity:

 clear bags are currently being used for diapers by those Niagara residents operating daycares out of

Cons 1) Perception of invasion of privacy:

- residents using clear bags may complain it is an invasion of their privacy.
 - this concern is partially addressed by allowing the use of an opaque bag inside the clear bag.
- IC&I business groups, who participated in the Region's 2012 consultation sessions for a clear garbage bag pilot, expressed privacy concerns, as well.

2) Potential illegal dumping:

 residents and businesses opposing the use of clear garbage bags may potentially illegally dump their garbage.

3) Collection issues:

- if a clear bag is placed inside a reusable container, enforcement may become more difficult if driver dumps the contents of the container directly into truck, as opposed to pulling the clear bag out of the container to look at it.
- the IC&I business groups expressed concerns about the aesthetics of uncollected bags, which would contain nonacceptable materials, being left in downtown or tourist areas.

4) Other Municipal programs:

Pros	Cons
their households, or families with at least two children under the age of four years old. - these residents may feel the program ensures equal treatment for all households.	 clear bag pilots were implemented in two comparator municipalities (Durham and Markham), however only Markham implemented a full program. Durham decided not to implement a region-wide clear bag program in 2014, due to a lack of information on the effectiveness of the clear bag in reducing the amount of garbage collected.

5) Establishment of a four (4) item limit per unit per collection for large item service at LDR, MR and MU properties.

Pros	Cons
 Municipal best practice/trend: average large item limit is three per residential unit for those municipalities with weekly collection, and four per residential unit with biweekly collection. 	 1) Potential illegal dumping: if residents are limited in the amount of large items that can be collected, there is potential for them to illegally dump items.
 2) Potential contract savings: municipalities that implemented collection limits on the number of large items reported contract savings. 	 2) Potential increased number of complaints from residents, due to reduction in service: residents may complain about this reduction in service being provided to their property.
 Fairness & equity: provides a standardized collection limit for all properties. Niagara residents set out an average of fewer than 2 large items per collection in 2018 	

6) Discontinuation of appliances and scrap metal collection at LDR properties.

Pros	Cons	
1) Municipal best practice/trend: 1) Potential illegal dumping:		
 approximately half of municipal 	 if residents are not provided with 	
comparators (Barrie, Hamilton,	service, there is potential for them	

Pros

London, Ottawa, Peel and Windsor) do not provide appliance collection service.

2) Potential contract savings:

- municipalities that eliminated this collection service realized a contract savings. In Peel, this was a net annual savings of \$100K.
- Niagara's current annual cost to collect these items is \$126K (or \$2,032 per tonne due to the reduced tonnage).
- many appliances and scrap metal items are scavenged before municipal contractors can collect them.
 - for the first two months of 2018, Emterra reported that approximately 60% of the items scheduled for collection were "not out" and were potentially scavenged.
- appliance and scrap metal tonnages collected in 2017 were 94% lower than what was collected in 2007.

3) Fairness & equity:

 residents have the option to recycle these items, at no cost, at the Region's drop-off depots or a scrap metal dealer, as well as call a scrap metal hauler to collect them.

Cons

to illegally dump items.

- Barrie reported an increase in illegal dumping when bulky/white goods collection service was discontinued; however it was not sustained (approximately six months).
- Peel provided its residents with advanced notice of this discontinuation of service and options for collection, so they did not see any significant increase in illegal dumping.
- 2) Potential increased number of complaints from residents, due to elimination of this service:
 - residents may complain about the elimination of this service.
 - those municipalities that discontinued collection (Barrie, Hamilton, Ottawa and Peel) reported a minimal reaction from their residents.

Audit Results

Base Collection Service Audit Results

Weekly Average Garbage Containers Set Out by IC&I Properties Inside the DBA (Base Collection Area)

(Dase Collect	lion Area)				
Municipality	Audit Year	Average Number of IC&I Properties Participating in Regional Collection Service	Average % of Participating IC&I Properties Using Regional Garbage Collection Service Inside DBA	Average Number of Garbage Containers Per Set-Out	Average % of IC&I Properties Exceeding Garbage Container Limit
Fort Erie	2018	56	88%	1.6	0%
Grimsby	2018	9.0	89%	1.2	0%
Lincoln	2018	18	83%	2.1	3%
Niagara Falls	2015	94.5	87%	2.7	6%
Pelham	2018	34	85%	2.3	3%
Port Colborne	2018	72	88%	2.2	3%
St. Catharines	2018	56	71%	1.7	0%
Thorold	2018	2	100%	1.8	0%
Welland	2018	68	91%	2.0	3%

Weekly Average Garbage Containers Set Out by MU Properties Inside the DBA (Base Collection Area)

(Dase Collect				T	
Municipality	Audit Year	Average Number of MU Properties Participating in Regional Collection Service	Average % of Participating MU Properties Using Regional Garbage Collection Service Inside DBA	Average Number of Garbage Containers Per Set-Out	Average % of MU Properties Exceeding Garbage Container Limit
Fort Erie	2016	63.5	95%	2.6	7%
Grimsby	2018	2	50%	1.0	0%
Lincoln	2018	21	90%	2.1	5%
Niagara Falls	2015	63	98%	1.8	3%
Pelham	2018	19	79%	2.8	0%
Port Colborne	2016	53	92%	2.5	1%
St. Catharines	2018	16	75%	1.6	0%
Thorold	2018	0	0%	0	0%
Welland	2016	54.5	91%	2.8	3%

Weekly Average Recycling and Organics Containers Set Out by IC&I Properties Inside the DBA (Base Collection Area)

Municipality	Audit Year	Average % of Participating IC&I Properties Using Regional Recycling Collection Service Inside DBA	Average Number of Recycling Containers Per Set- Out	Average % of Participating IC&I Properties Using Regional Organics Collection Service Inside DBA	Average Number of Organics Containers Per Set- Out
Fort Erie	2018	66%	1.9	11%	1.8
Grimsby	2018	56%	1.5	22%	0.8
Lincoln	2018	72%	1.9	17%	1.0
Niagara Falls	2015	61%	2.0	11%	1.3
Pelham	2018	62%	3.1	12%	1.0
Port Colborne	2018	72%	1.6	6%	0.6
St. Catharines	2018	73%	1.5	16%	1.5
Thorold	2018	50%	0.5	0%	0.0
Welland	2018	65%	2.1	9%	2.4

Weekly Average Recycling and Organics Containers Set Out by MU Properties Inside the DBA (Base Collection Area)

Municipality	Audit Year	Average % of Participating MU Properties Using Regional Recycling Collection Service Inside DBA	Average Number of Recycling Containers Per Set- Out	Average % of Participating MU Properties Using Regional Organics Collection Service Inside DBA	Average Number of Organics Containers Per Set- Out
Fort Erie	2016	72%	2.0	16%	0.8
Grimsby	2018	100%	1.8	0%	0.0
Lincoln	2018	52%	2.4	19%	1.1
Niagara Falls	2015	46%	1.3	11%	1.0
Pelham	2018	84%	2.5	32%	0.5
Port Colborne	2016	67%	1.9	19%	1.5
St. Catharines	2018	69%	1.5	13%	1.0
Thorold	2018	0%	0.0	0%	0.0
Welland	2016	72%	2.3	17%	1.0

2014 Weekly Average Garbage Containers Set Out by IC&I Properties Outside the DBA (Base Collection)

Municipality	Average % of IC&I Properties Using Regional Collection Service Outside DBA	Average Number of Containers Per Set-Out	Average Number of IC&I Properties Exceeding 4 Garbage Container Limit	Average % of IC&I Properties Exceeding 4 Garbage Container Limit
Fort Erie	41%	1.7	12	7%
Grimsby	46%	1.8	6	7%
Lincoln	47%	1.7	10	5%
Niagara Falls	43%	1.8	28	7%
Niagara-on-the- Lake	62%	1.3	11	3%
Pelham	37%	1.8	3	6%
Port Colborne	42%	2.1	9	8%
St. Catharines	41%	1.9	35	7%
Thorold	26%	1.7	7	11%
Wainfleet	44%	1.5	1	2%
Welland	39%	1.7	10	6%
West Lincoln	46%	1.4	3	3%
Regional Average:	44%	1.7	11	6%

2014 Weekly Average Garbage Containers Set Out by MU Properties Outside the DBA (Base Collection)

Municipality	Average % of MU Properties Using Regional Collection Service Outside DBA	Average Number of Containers Per Set-Out	Average Number of MU Properties Exceeding 6 Garbage Container Limit	Average % of MU Properties Exceeding 6 Garbage Container Limit
Fort Erie	71%	1.7	1	1%
Grimsby	85%	1.5	0	0%
Lincoln	79%	1.6	1	2%
Niagara Falls	70%	2.0	2	2%
Niagara-on-the- Lake	62%	1.6	0	0%
Pelham	67%	1.7	1	5%
Port Colborne	86%	1.6	0	0%
St. Catharines	69%	1.9	4	2%
Thorold	70%	1.1	0	0%
Wainfleet	70%	1.4	0	0%
Welland	74%	2.0	2	2%
West Lincoln	74%	1.5	0	0%
Regional Average:	72%	1.8	1	1%

2014 Weekly Average Recycling and Organics Containers Set Out by IC&I Properties Outside the DBA (Base Collection)

Municipality	Average % of Participating IC&I Properties Using Regional Recycling Collection Service Outside DBA	Average Number of Recycling Containers Per Set-Out	Average % of Participating IC&I Properties Using Regional Organics Collection Service Outside DBA	Average Number of Organics Containers Per Set-Out
Fort Erie	33%	1.6	7%	1.0
Grimsby	35%	1.8	11%	0.7
Lincoln	41%	1.8	11%	0.8
Niagara Falls	32%	1.7	7%	0.8
Niagara-on-the- Lake	58%	1.9	28%	0.8
Pelham	27%	1.6	12%	0.9
Port Colborne	31%	2.0	8%	1.3
St. Catharines	29%	1.8	9%	0.9
Thorold	21%	1.6	6%	0.7
Wainfleet	37%	1.7	7%	0.8
Welland	28%	1.8	7%	1.4
West Lincoln	34%	1.5	10%	0.7
Regional Average:	34%	1.7	11%	0.9

2014 Weekly Average Recycling and Organics Containers Set Out by MU Properties Outside the DBA (Base Collection)

Municipality	Average % of Participating MU Properties Using Regional Recycling Collection Service Outside DBA	Average Number of Recycling Containers Per Set-Out	Average % of Participating MU Properties Using Regional Organics Collection Service Outside DBA	Average Number of Organics Containers Per Set-Out
Fort Erie	68%	2.0	23%	0.9
Grimsby	76%	1.8	29%	1.3
Lincoln	70%	2.3	27%	0.9
Niagara Falls	50%	1.9	18%	0.7
Niagara-on-the- Lake	54%	2.0	16%	0.6
Pelham	73%	1.7	17%	0.9
Port Colborne	66%	1.6	17%	1.0
St. Catharines	57%	1.8	17%	0.8
Thorold	70%	1.4	35%	0.8
Wainfleet	56%	1.4	7%	0.5
Welland	63%	1.7	19%	1.1
West Lincoln	59%	1.7	15%	0.8
Regional Average:	61%	1.8	20%	0.8

Enhanced Collection Service Audit Results

Weekly Average Garbage Containers Set Out by IC&I Properties Inside the DBA (Enhanced Collection Area)

Municipality	Audit Year	Average # of IC&I Properties Participating in Regional Collection Service	Average % of Participating IC&I Properties Using Regional Garbage Collection	Average # of Garbage Containers Per Set-Out	Average % of IC&I Properties Exceeding Garbage Container Limit
Grimsby	2014	38	88%	3.6	0%
Niagara Falls	2015	147	82%	5.2	6%
NOTL	2018	30	80%	6.0	21%
St. Catharines	2018	77	52%	2.7	0%
Thorold	2014	62.5	94%	4.5	2%
West Lincoln	2014	38	95%	2.5	0%

Weekly Average Garbage Containers Set Out by MU Properties Inside the DBA (Enhanced Collection Area)

Municipality	Audit Year	Average # of IC&I Properties Participating in Regional Collection Service	Average % of Participating IC&I Properties Using Regional Garbage Collection	Average # of Garbage Containers Per Set-Out	Average % of IC&I Properties Exceeding Garbage Container Limit
Grimsby	2018	18	89%	1.6	0%
Niagara Falls	2015	21	95%	2.9	3%
NOTL	2018	17	100%	6.8	12%
St. Catharines	2018	71	94%	1.5	0%
Thorold	2018	30	92%	1.9	0%
West Lincoln	2018	12	100%	1.7	0%

Weekly Average Recycling and Organics Containers Set Out by IC&I Properties Inside the DBA (Enhanced Collection Area)

Municipality	Audit Year	Average % of Participating IC&I Properties Using Regional Recycling Collection	Average # of Recycling Containers Per Set-Out	Average % of Participating IC&I Properties Using Regional Organics Collection	Average # of Organics Containers Per Set-Out
Grimsby	2014	64%	2.6	7%	1.6
Niagara Falls	2015	55%	2.4	6%	4.4
NOTL	2018	57%	2.9	7%	6.0
St. Catharines	2018	52%	2.6	10%	2.4
Thorold	2014	54%	2.2	6%	0.9
West Lincoln	2014	78%	1.8	7%	8.0

Weekly Average Recycling and Organics Containers Set Out by MU Properties Inside the DBA (Enhanced Collection Area)

Municipality	Audit Year	Average % of Participating MU Properties Using Regional Recycling Collection	Average # of Recycling Containers Per Set-Out	Average % of Participating MU Properties Using Regional Organics Collection	Average # of Organics Containers Per Set-Out
Grimsby	2018	78%	0.9	0%	0.0
Niagara Falls	2015	57%	1.1	14%	0.6
NOTL	2018	59%	2.3	0%	0.0
St. Catharines	2018	55%	2.5	7%	2.6
Thorold	2018	67%	1.1	3%	3.5
West Lincoln	2018	67%	1.8	0%	0.0

Appendix 4 - Stakeholder Comments on Proposed Base Collection Options

Consultation and engagement with stakeholders commenced in May of 2018 to obtain input on the proposed base collection options. The following sections summarize the results of the comments provided by stakeholders throughout the consultation process. Not all stakeholders that staff engaged with provided formal comments on the proposed collection options. In addition, the results of the on-line and telephone survey are contained in a separate appendix. The following section summarizes the formal comments provided from the following stakeholders:

- Regional Departments and Agencies, Boards and Commissions
- Waste Management Advisory Committee
- Organizations Representing Business (ie. Business Improvement Associations, Chambers of Commerce, Tourism Agencies and Industrial Associations)
- Local Area Municipalities
- Residents and Business Owners (excluding feedback provided through the on-line and telephone surveys)

1.0 Regional Departments and Agencies, Boards and Commissions (ABCs):

Staff from the following Regional Departments and ABCs provided input on the proposed base collection options.

1.1 Planning and Development Services

Planning and Development Services reviewed the proposed container limit changes pertaining to MU properties inside and outside DBAs, to ensure alignment with broader Corporate initiatives, including the objectives of Growth Management policies. The following comments were provided by Pat Busnello, Manager Development Planning:

"the proposed reduced limit would not affect larger mixed-use developments that already exceed the current container limits and require private garbage collection"

"recent curbside audits referenced in Appendix A of Report WMPSC-C 9-2018 indicate the average number of garbage containers placed out weekly by mixed-use properties was below the proposed limit. The report therefore, indicates that the needs of mixed-use properties are expected to be met based on the audit results, particularly if diversion services are utilized. As

such, it is generally not anticipated that smaller mixed-use developments would be affected by the proposed change."

Lindsey Savage, Planner with Community and Long Range Planning provided comments on the alignment of the proposed collection options with the new Growth Plan for the Greater Golden Horseshoe, which took effect on July 1, 2017:

• "The proposed changes to waste collection services align with and support policy 4.2.9.1 d) i) of the Growth Plan, which requires municipalities to develop and implement official plan policies and other strategies in support of integrated waste management, including through enhanced waste reduction, composting and recycling initiatives. In addition, a new Regional Official Plan is under development which will include policies supporting integrated waste management, in conformity with the Growth Plan."

1.2 Economic Development

Valerie Kuhns, Economic Development Manager with Economic Development indicated that their work generally revolves around larger industrial companies, which would not use the Region's curbside garbage collection service, and would not be impacted by the proposed collection options

1.3 Niagara Regional Housing

Cameron Banach, Manager Housing Operations with Niagara Regional Housing reviewed the relevant proposed collection options and indicated they would not be in support of EOW garbage collection, or mandatory use of clear bags for garbage at their properties.

2.0 Waste Management Advisory Committee (WMAC)

At the November 21, 2018 WMAC meeting, members voted all in favour or majority in favour of all base collection options.

3.0 Organizations Representing Business

Meetings were held with representatives from each of Niagara's Business Improvement Associations, Chambers of Commerce, Niagara Tourism Agencies, Niagara Economic Development Corporation, and Niagara Industrial Association, during the months of August and September.

The following ORBs provided formal comments on the proposed collection options for the next contract:

• Grimsby Downtown Improvement Association:

- Do not support reducing base container limit from seven (7) cans/bags to four (4) cans/bags per week.
- Do not support mandatory use of clear garbage bags due to concern about enforcement and mixed-use properties.
- Do not support reducing enhanced container limit without knowing the associated cost savings.

• Niagara Falls - Queen Street Business Improvement Association:

- Do not support reducing base container limit from seven (7) cans/bags to four (4) cans/bags per week.
- Do not support mandatory use of clear garbage bags.

• Niagara Falls - Victoria Centre Business Improvement Association:

- Request reduction in container limit for enhanced collection service from fifteen (15) cans/bags weekly to seven (7) cans/bags weekly.
- Do not support mandatory use of clear garbage bags. Support would be contingent on seeing a report on how the contractor will educate its staff on the proper materials that go into the proper containers/bags.
- Request collection start time change to 5 a.m., instead of 7 a.m.

Pelham Business Association:

Support all proposed collection options

• Port Dalhousie Business Association:

- Expressed concern that proposed options would make collection more onerous and/or costly for businesses.
- Also have concerns about storing garbage in the hot summer months.

• St. Catharines Downtown Business Association:

- Do not support reducing base container limit from seven (7) cans/bags to four (4) cans/bags per week.
- Do not support mandatory use of clear garbage bags due to concern about enforcement and mixed-use properties.
- Request for increased organics/recycling collection and review of days and times of collection for the enhanced collection area. Also request continued front-end cardboard collection bins.

Based on these comments, there was very limited support for the mandatory use of clear bags for garbage, or the reduction in the garbage container limits for IC&I and

MU properties inside the DBAs. The exception was the Pelham Business Association, which supported all proposed options.

4.0 Local Area Municipalities (LAMs)

Formal comments from the LAMs on the proposed collection options and which enhanced services to be included in Niagara Region's next contract are being requested by February 1, 2019.

5.0 Residents and Businesses

The primary method for collecting input from residents and businesses on the proposed collection options was through the on-line survey. Residents of low density residential properties were also targeted for feedback through a telephone survey.

Individuals that wanted to provide comments and feedback in addition to or as an alternative to the surveys were able to do so through a number of options. While this feedback cannot be included in the statistical analysis as representative of the population, it can be considered as part of the anecdotal findings to support the overall findings.

Residents and business owners provided additional comments by posting on Facebook, calling the Waste Info-Line, sending emails, providing web submissions and/or speaking with staff in-person at open house and community booth events. These comments are summarized in the subsections below.

5.1 Facebook

Facebook was the primary social media platform used by members of the public to comment on the proposed collection options for the next contract. The majority of comments were related to the proposed options for the mandatory use of clear garbage bags and every-other-week garbage collection. Of all of the comments documented that were related to every-other-week garbage collection, 22% of comments were in support of this proposed option. For clear garbage bags, 10% of comments related to this option were supportive.

Overall, the majority of commenters used this platform as a means of communicating their concerns. The comments posted on the Region's paid Facebook advertisement were reviewed, categorized and tallied. The ten most frequently reported concerns are listed below in order of the frequency that they

appeared in comment section. As of November 30, 2018, 1,467 Facebook comments were posted.

Most Common Comments (by % of most posted comments)

- 1. Concern about odours from products that cannot be placed in the Green Bin (i.e. diapers and raw meat packaging) increasing with every-other-week garbage collection (16%)
- 2. Concern about privacy with the use of clear garbage bags for personal items (i.e. incontinence products, feminine hygiene products, prescription bottles, bills) and that one opaque bag is not sufficient to contain all of these items (12%)
- 3. Concern that services are decreasing, but residents will not receive an associated decrease in taxes (10%)
- 4. Concern about a potential increase in pests (i.e. rats, raccoons, squirrels, coyotes, maggots) if garbage is collected every-other-week (10%)
- 5. Concern that mandatory use of clear garbage bags is adding unnecessary plastic waste to the landfills (8%)
- 6. Requests for Region to use carts, bigger containers and/or containers with lids (7%)
- 7. Complaints about current service, including missed collection (7%), late collection (7%) and generally displeased with service (4%)

Facebook Analytics for "Lets Talk Waste" Campaign:

- Impressions: 271,397
 - The number of <u>times</u> any content from the "Niagara Region" Facebook page entered a person's screen.
- Link clicks: 6,633
 - The number of clicks on links within the "Lets Talk Waste" Facebook paid ad that led to the Niagara Region "Lets Talk Waste" webpage.
- Reach as per analytics: 78,784
 - Number of <u>people</u> who had a <u>paid</u> post from the Niagara Region Facebook page enter their screen.

• Reach with organic: 112,159

- Number of <u>people</u> who had an <u>unpaid</u> post from Niagara Region Facebook page enter their screen.

• Cost per click: 2.44%

- The actual price paid for each click in the "Lets Talk Waste" Facebook paid ad campaign.

• Total engagements: 19,733

- Includes all actions that people take involving the "Lets Talk Waste" Facebook paid ad while it was running. Post engagements can include actions such as reacting to, commenting or sharing the ad, or clicking on a link.

• Reactions as per analytics: 367

 On the "Lets Talk Waste" Facebook paid ad itself, Facebook only reports direct reactions on those people who the ad was delivered to. So if a Facebook user received the ad and reacted, that is counted as one reaction per analytic. But if the Facebook user's friend saw their feed (but did not receive the ad) reacted, it is not counted.

• Comments as per analytics: 331

 On the "Lets Talk Waste" Facebook paid ad itself, Facebook only reports direct comments on those people who the ad was delivered to. So if a Facebook user received the ad and commented, that is counted as one comment per analytic. But if the Facebook user's friend saw their feed (but did not receive the ad) commented, it is not counted.

• All reactions: 561

- This is the total number of reactions on the "Lets Talk Waste" Facebook paid ad. This provides a better picture of the total engagement.

• All comments: 1,467

- All comments (including replies) on the "Lets Talk Waste" Facebook paid ad.

• Shares: 358

- The number of times Facebook users shared the "Lets Talk Waste" Facebook paid ad to their Facebook profile or a different Facebook page.

• Amount spent: \$2,456.23

5.2 Open Houses and Community Booths

A public open house, with a presentation was held in each of the twelve municipalities in Niagara. Staffed community booths with informational displays were also held in a public space in each municipality. The community booths were very well attended with approximately 450 attendees and open house attendance was lower with 67 attendees, perhaps due to poor weather conditions.

The majority of the comments heard were related to the options for every-otherweek garbage collection and mandatory use of clear garbage bags. Members of the public visiting the booths and open houses were divided about every-other-week garbage collection. While approximately half of the people that talked to staff at events expressed support, there were some specific concerns that were repeated throughout the consultation process. There was less support for clear bags, with the majority of participants expressing opposition to the option. A minority of the feedback and conversations at these events dealt with the options to introduce a four-item limit on bulky item collection and the discontinuation of scrap metal collection, but of those commenting there was a high level of support to implement the changes. The key concerns about the proposed options heard at these stakeholder consultation events are listed below.

Most Common Comments (listed in no particular order)

- 1. Concern about odours from products that cannot be placed in the Green Bin (i.e. diapers and raw meat packaging) increasing with every-other-week garbage collection
- 2. Concern that illegal dumping will increase as a result of every-other-week garbage collection and/or mandatory use of clear garbage bags.
- 3. Concern about privacy with the use of clear garbage bags for personal items (i.e. incontinence products, feminine hygiene products, prescription bottles, bills) and that one opaque bag is not sufficient to contain all of these items
- 4. Concern about the additional expense of having to purchase clear bags and/or privacy bags and potential issues with the quality and availability of clear garbage bags
- 5. Concern about storing additional garbage bags due to every-other-week garbage collection and/or clear garbage bags that are left behind due to unacceptable materials.
- Concerns about the ability of collectors to monitor and enforce clear garbage bag contents

- 7. Concern about how residents will transport scrap metals and large appliances to the drop-off depots.
- 8. Concern about a potential increase in pests (i.e. rats, raccoons, squirrels, coyotes, maggots) if garbage is collected every-other-week
- 9. Concern that mandatory use of clear garbage bags is adding unnecessary plastic waste to the landfills
- 10. Complaints about current service, including missed collection, late collection, and generally displeased with service

6.0 Waste Info-Line, Emails, Web Submissions

Residents and business owners interested in providing the Region with additional comments were able to do so by calling the Waste Info-Line, sending an email or submitting their comments through the Region's website. Comments from individuals that provided an address were recorded in CityView, Waste Management's customer service software. These comments were categorized based on support or opposition to the proposed options. Comments from individuals that did not provide an address recorded in a public comment tracking sheet, separate from the CityView program. As of December 2, 2018, 38 comments were recorded in CityView and 27 additional comments without associated addresses were recorded in the spreadsheet public comment tracking sheet.

6.1 CityView

Due to the self-selected nature of the input and the small number of comments recorded, the CityView data cannot be considered representative of the viewpoints of the broader population. The comments do provide anecdotal insight into some of the key attitudes that residents and business owners have towards the proposed collection options.

The majority (74%) of individuals that commented were contacting the Region to express concern over one or more of the proposed collection options. The key concerns expressed in the comments align with those provided through Facebook and at the open houses/community booths. Individuals opposed to every-otherweek garbage collection were concerned about potential odours and pests. Comments related to clear bags were focused on privacy issues. There were also

concerns from multi-residential and mixed-use property owners about tenants not complying with the diversion programs and thus presenting a challenge for both the every-other-week and clear garbage bag options.

Of the 38 comments recorded, 26% were in favour of one or all of the proposed options. In particular, 16% were in favour of every-other-week garbage collection. Other comments provided included suggestions for alternative options, including collection from alternating sides of the road and communal collection areas.

6.2 Additional Comments

The additional comments from residents and business owners that did not provide an address align with the comments provided through Facebook, at public consultation events and in CityView. The most frequent comments were concerns about odours and pests related to every-other-week garbage collection and privacy issues associated with clear garbage bags.

Appendix 5 - Stakeholder Consultation and Engagement Process

An extensive public consultation and engagement process was undertaken to obtain stakeholder input on the proposed base collection options for the next collection contract. The consultation began in May 2018 was carried out in two phases: targeted stakeholder consultation and broad-based community consultation. Targeted stakeholder consultation involved direct communication with specific stakeholder groups to provide information and gather feedback on the proposed collection options. Broad-based community outreach was completed to reach residents and businesses eligible for Regional curbside collection services to inform them about the proposed collection options and encourage participation in the on-line survey, which was the principle mechanism for collecting public input and feedback.

A summary of both phases of the consultation is described below.

1. Targeted Stakeholder Consultation and Engagement

1.1. Regional Departments and Agencies, Boards and Commissions (ABCs):

- The following Regional Departments and ABCs were contacted to discuss proposed options and invite questions, comments and input into the process:
 - o Planning and Development Services Department
 - o Economic Development
 - Niagara Regional Housing

1.2. Waste Management Advisory Committee (WMAC)

- At the November 21, 2018 meeting of the WMAC, members were provided with a presentation on the proposed collection options and an opportunity for questions and comments.
- Members were provided with an opportunity to vote on each proposed service option.

1.3. Organizations Representing Business

1.3.1. Business Improvement Associations (BIAs), Chambers of Commerce, Industrial Associations

 Waste Management staff met with each of Niagara's BIAs, Chambers of Commerce and the Niagara Industrial Association in August and September of 2018 to provide a presentation on the proposed service options. The purpose of these meetings was to discuss the proposed collection options, obtain preliminary input on these options, obtain input on how to further engage their members and to request formal comments by November 30, 2018. The meeting dates and representatives that attended the meetings are listed in the tables below.

- Waste Management staff sent follow-up emails to each organization after the meetings on October 9, 2018 and November 22, 2018 to request formal feedback.
- Those organizations were also provided with letters for distribution to their membership on October 24, 2018. The letters contained information about the proposed options and stakeholder consultation process as well as a link to the on-line survey and open house/community booth dates and locations.
- The following four organizations confirmed they would reach out to members on behalf of the Region to encourage participation in the consultation process:
 - St. Catharines Downtown Association, Queen Street Niagara Falls BIA, Downtown Welland BIA, Grimsby Downtown Improvement Association

Business Improvement Associations

LAM Represented	Organization/Representative	Meeting Date
Fort Erie	 Ridgeway Business Improvement Association (BIA) - Marge Ott Crystal Beach BIA – No rep attended Bridgeburg Station BIA – No rep attended Town of Fort Erie – Kelly Walsh 	August 23, 2018
Grimsby	 Grimsby Downtown Improvement Association Leigh Jankiv Town of Grimsby – Bob LeRoux 	August 1, 2018
Lincoln	 Downtown Beamsville BIA – Stephanie Hicks Town of Lincoln – Dave Graham 	August 10, 2018
Niagara Falls	 Clifton Hill BIA – No rep attended Fallsview BIA – Sue Mingle Lundy's Lane BIA – David Jankovic Main and Ferry BIA – Ruth Ann Nieuwesteeg Victoria Centre BIA – Eric Marcon Queen Street BIA – No rep attended City of Niagara Falls – Geoff Holman 	August 15, 2018
Pelham	 Pelham Business Association – David Tucker Town of Pelham – Derek Young & Ryan Cook 	August 8, 2018

LAM Represented	Organization/Representative	Meeting Date
Port Colborne	 Port Colborne Main Street BIA – Frank Danch Port Colborne Downtown BIA – Betty Konc Town of Port Colborne – Chris Lee 	August 24, 2018
Port Dalhousie	Port Dalhousie Business Association – Wolfgang Guembel	August 22, 2018
St. Catharines	 St. Catharines Downtown Association - Tisha Polocko City of St. Catharines – Dan Dillon 	August 22, 2018
Thorold	 Thorold BIA – Marsha Coppola, Tim Whalen City of Thorold – Sean Dunsmore 	August 2, 2018
Welland	 Welland Downtown BIA – Amanda MacDonald, Delores Wright Welland North BIA – John Clark City of Welland – Eric Nickel 	August 9, 2018

Chambers of Commerce

LAM Represented	Organization/Representative	Meeting Date
Niagara-on-the- Lake (NotL)	Chamber of Commerce – Janice Thompson Town of NotL – Sheldon Randall	September 10, 2018
Fort Erie, Grimsby, Lincoln, Niagara Falls, NotL, Pelham, Port Colborne, St. Catharines, Welland, West Lincoln	Greater Niagara Chamber of Commerce - Mishka Balsom	September 13, 2018

Fort Erie, Grimsby, Lincoln, Niagara Falls, Pelham, Port Colborne, Welland, West Lincoln	Niagara Chamber of Commerce Partnership – Rebecca Shelley (Grimsby); Johnathan George (Fort Erie); Paul Scottile, Jim Arnold (Niagara Falls); Denise Potter (West Lincoln); Len Stolk (Port Colborne/Wainfleet); Gary Bruce, Anna Murre (Lincoln); Delores Fabiano (Welland/Pelham, Niagara Falls, Fort Erie, Port Colborne/Wainfleet)	August 22, 2018
Thorold	 Venture Niagara – Susan Morin Niagara Centre Board of Trade & Commerce – John D'Amico 	September 26, 2018

Industrial Associations

LAM	Organization/Representative	Meeting Date
Represented		
All Niagara Municipalities	Niagara Industrial Association – Adam Joon & Aaron Tisdelle	September 21, 2018

1.3.2. Tourism Agencies

- Waste Management staff met with the Tourism Partnership of Niagara on behalf of five tourism agencies (Destination Marketing Organizations): Niagara Falls Tourism, Tourism Niagara-on-the-Lake, City of St.Catharines Department of Economic Development and Tourism, Twenty Valley Tourism Association and Niagara South Coast Tourism Association.
- Staff offered to provide a presentation at the meeting.
- On September 18, 2018, letters were provided to each tourism agency describing proposed options, audit data, info about survey and public events. The letter requested formal feedback on the proposed options be December 7, 2018.
- A follow-up email containing a link to the project website and on-line survey was sent to the Tourism Partnership of Niagara on November 23, 2018, for distribution to their membership.

Tourism Agencies

LAM	Organization/Representative	Meeting Date
Represented		

Fort Erie, Grimsby, Lincoln,	Tourism Niagara – Anthony Annunziata & Karin Jahnke-Haslam (on behalf of Niagara	September 18, 2018
Niagara Falls,	Falls Tourism, Tourism Niagara-on-the-Lake,	
Niagara-on-the-	City of St.Catharines Department of Economic	
Lake, Port	Development and Tourism, Twenty Valley	
Colborne, St.	Tourism Association and Niagara South Coast	
Catharines,	Tourism Association)	
Welland,	·	
West Lincoln		

1.4. Local Area Municipalities (LAMs) (i.e. municipal staff and Councillors)

- Letters were sent to LAM Clerks on May 4, 2018 and Public Works Officials (PWOs) on June 6, 2018 advising of proposed options and requesting LAM comments by February 1, 2019
- Presentations were made to PWOs at their June 11, Oct. 16 & Dec. 11, 2018 meetings
- In addition, Region staff offered to attend LAM Committee or Council meetings to make a presentation. As of December 11, Region staff were requested to present at the following LAM Committee or Council meetings:
 - o Grimsby Council (December 17, 2018)
 - Niagara Falls Council (January 15, 2019)
 - o Fort Erie Council (January 21, 2019)
 - West Lincoln Council (January 21, 2019)
 - Welland General Committee (January 22, 2019)

2. Broad-Based Community Consultation and Engagement

Broad-based community consultation employed a range of outreach activities to engage with as many low density residential (LDR) households, multi-residential (MR) property owners, groups and associations (i.e. property management companies) and Industrial, Commercial and Institutional (IC&I) and mixed-use (MU) property owners as possible during October and November of 2018. The table below provides details on each outreach activity undertaken as part of the broad-based consultation and engagement.

Outreach	Description	Location	Date (2018)
Activity			

Letters	Letters mailed out containing information on proposed collection options, link to survey, open house/community booth information and an invitation to contact the Region	 1,369 businesses <u>inside</u> Designated Business Areas (DBAs) 1,980 businesses <u>outside</u> DBAs 125 multi-residential properties 	October 22
Web	Project website provided information on the proposed collection options, details about public open house events/community booths and the link to the survey	Project webpage on Niagara Region website	October 23, to November 30
	Link to project website	 Webpage banner on Niagara Region Waste webpage 	
		 LAM provided with P&E for websites that had link to project webpage 	October 22
Social Media	Link to project website	 Facebook paid advertisement with link to project webpage Twitter post on Niagara Region Twitter with link to project webpage 	October 25- November 28
	Link to project website and details about open houses/community booths	Facebook posts	November 1- November 28
Newspaper: Print Ads	Invitation to participate in stakeholder consultation with link to project website	Niagara This Week	October 25, November 1,8,15, 22
		St. Catharines Standard	October 27, November 10,
		Welland Tribune	November 3,
		Niagara Falls Review	November 3,
		News Now	November 15 and November 22

Newspaper: On-line Ads	Invitation to participate in stakeholder consultation with link to project website	24 hour ad - St. Catharines Standard, Welland Tribune, Niagara Falls Review websites	October 30, November 6,13, 20
		 24 hour ad - Niagara This Week website 	November 24
		1 week ad - News Now website	November 22- 29, 2018
		2 week ad - Niagara Independent website	November 19- 30
		Big Box Takeover- St. Catharines Standard, Welland Tribune, Niagara Falls Review	October 30, November 5,11,20
Media	An overview of proposed	Media release	October 25
Coverage	options and rationale and reference to project	Radio interview on 610 CKTB Newstalk	November 5
	webpage, survey and events	 Television coverage on Cogeco YourTV; accessible on-line and aired daily on YourTV 	November 5 - November 30
		 Articles - St. Catharines Standard/Niagara Falls Review, Voice of Pelham, Erie Media 	October 28, November 5, 7, 23
Post Cards	Invitation to participate in consultation, list of key options and link to survey/webpage	 Post cards displayed at LAM offices: 100 each in Fort Erie, Grimsby, Lincoln, Niagara-on-the-Lake, Pelham, Port Colborne, Thorold and Wainfleet; 200 each in Niagara Falls, St.Catharines and Welland. Post cards available at Regional Headquarters and landfill sites Post cards distributed at every community booth and open house 	October 23- November 30
Internal	Campaign banner and link to	Vine intranet for all	October 31-
Advertising	survey/webpage	Regional employees	November 30

		Vine weekly for all Regional employees	November 1
Community Booths	A table with educational material and poster boards with information on proposed options were set up in public spaces including malls, arenas, community centres and libraries. Staff were available with iPads to allow visitors complete the on-line surveys and to respond to questions and comments	One booth in each LAM during day and/or evening hours	Each booth set up for one day in each LAM between Oct 30 –Nov 26 Approx. 450 visitors in total at booths
Open Houses	Staff provided a 25-minute presentation and the opportunity for a question and answer period. Staff were also available with iPads to allow attendees to complete the on-line survey to respond to questions and comments	One open house in each LAM from 6pm-8pm	Various dates from Nov 1- Nov 28 Total of 67 attendees

Appendix 6 - Summary of Stakeholder Consultation and Engagement Events

Public Open Houses (All public open houses were held from 6:00pm to 8:00pm, with a

presentation at 6:30pm)

Municipality	Location	Date
Niagara-on-the-Lake	Community Centre	November 1, 2018
Niagara Falls	Gale Centre	November 5, 2018
Welland	Community Wellness Complex	November 6, 2018
Port Colborne	Roselawn Centre	November 8, 2018
Pelham	Pelham Meridian Centre	November 12, 2018
Fort Erie	Leisureplex	November 13, 2018
St. Catharines	St. Catharines Public Library- Central Branch	November 15, 2018
Thorold	Niagara Region Headquarters Building	November 19, 2018
Lincoln	Fleming Centre	November 20, 2018
West Lincoln	Municipal Office	November 22, 2018
Grimsby	Peach King Centre	November 27, 2018
Wainfleet	Firefighters Memorial Community Hall	November 28, 2018

Community Booths:

Municipality	Location	Date	Time
St. Catharines	Pen Centre	October 30, 2018	9am-9pm
Niagara Falls	MacBain Community Centre	November 5, 2018	9:30am-4pm
Niagara-on- the-Lake	Community Centre	November 6, 2018	9am-3:30pm
Port Colborne	Vale Health and Wellness Centre	November 7, 2018	4:30pm-9pm
Thorold	Thorold Public Library	November 8, 2018	10am-7:30pm
Pelham	Pelham Public Library	November 12, 2018	10am-4:30pm
Fort Erie	Fort Erie Centennial Library	November 13, 2018	9:30am-4:30pm
Welland	Seaway Mall	November 14, 2018	10am-8pm
Lincoln	Fleming Centre	November 20, 2018	9am -5pm
West Lincoln	West Lincoln Public Library	November 21, 2018	10am-4:30pm
Wainfleet	Wainfleet Arena	November 22, 2018	2:30pm-8:30pm
Grimsby	Grimsby Public Library	November 26, 2018	9am-8:30pm

Appendix 7 - Addressing Concerns Related to Proposed Collection Options

During the stakeholder consultation and engagement process, concerns were expressed by residents and business owners through Facebook, public open houses/community events and communication by email, phone and web submission. Those concerns are summarized in Appendix 4. The following table provides potential responses for addressing those concerns and minimizing potential impacts of the proposed collection options.

Resident Concern	Options for Addressing Concern
Odours from diapers, feminine hygiene products, raw meat packaging increasing with every-other-week garbage	 Provide option for residents to drop-off clear bags of diapers at landfill sites/drop-off depots at no charge. Diapers, feminine hygiene products and raw meat packaging should be sealed tightly a plastic bag and placed in a container with a lid for storage in a cool, dry location. Styrofoam meat trays can be washed and placed in the Blue Box for weekly collection.
Increased illegal dumping of garbage as a result of every- other-week garbage and/or clear garbage bags	 Experience in other municipalities has shown that property owners readily adapt to collection changes and if there is an increase in illegal dumping after the change in collection is implemented, it is temporary and short-lived. By-law officers work to enforce ongoing issues with illegal dumping.
Privacy issues with the use of clear garbage bags for personal items	 To conceal private or sensitive materials, allow an opaque privacy bag (i.e. grocery bag) to be placed inside the clear garbage bags. Confidential documents should be shredded and placed inside a clear plastic bag before being placed inside the Grey Box or Grey Cart. These materials can also be placed in the Green Bin. Experience in Markham showed that allowing multiple opaque privacy bags at outset of clear bag program facilitated implementation and reduced privacy concerns.

Additional expense of having to purchase clear bags and/or privacy bags and potential issues with quality and availability of clear garbage bags	 Clear plastic and coloured plastic garbage bags are manufactured from the same type of plastic resin. The quality and strength of clear plastic bags is similar to that of opaque plastic bags. Differences in price and quality may occur, based on individual bag size, closure type, packaging size or brand name. Regional staff would communicate with local businesses to ensure that clear bags would be available for purchase at the same local retailers as traditional opaque bags.
Storing additional garbage bags due to every-other-week garbage collection and/or clear garbage bags that are left behind due to unacceptable materials	 Residents and businesses can significantly reduce their garbage by fully utilizing the weekly, unlimited recycling and organics collection services provided by Niagara Region. Once unacceptable materials are removed from clear garbage bags, the materials can be placed out on the next scheduled collection day or taken to a drop-off depot for a fee.
Ability of collectors to monitor and enforce clear garbage bag contents	 Collectors would evaluate whether a bag conforms to the Waste Management By-law regarding recyclables, organics and hazardous waste, based on what can be seen through the clear bag. Collectors would not be opening bags or searching contents. Bags would be assessed visually during collection time to address clear instances of non-conformance, including situations where non-acceptable materials are visible or a clear garbage bag has not been used. Regional staff will follow-up with the property owner regarding the proper set out of material for collection to avoid reoccurrence of uncollected garbage.
Ability of residents to transport scrap metal and large appliances to drop-off depots.	 Residents that do not have the ability to transport scrap metal and large appliances would have the option of contacting private scrap metal haulers for pick-up.

Increase in pests (i.e. rats, raccoons, squirrels, maggots) if garbage is collected everyother-week	 Placing food waste and food soiled-paper products in the Green Bin, which will continue to be collected weekly, will remove the most odorous part of the garbage stream, which can attract pests. Residents can take simple steps to deter pests, such as rodents, from their Green Bins, including: Keeping the Green Bin container securely closed at all times Setting out the Green Bin for collection every week, even if it is not full Setting out the Green Bin by 7am on collection day, not the night before Storing the Green Bin in a shaded, cool area Lining the Green Bin with paper liner bags, sheets of newspaper or cereal boxes to absorb liquids
Clear garbage bags adding unnecessary plastic waste to landfills	 For those residents already using garbage bags and/or grocery bags, clear bags would not increase the amount of plastic bags being sent to landfills. Plastic opaque privacy bags would be optional. Use of clear garbage bags would be expected to increase diversion rates, potentially offsetting any additional plastic introduced through use of clear garbage bags.
Requests for Region to use carts, bigger containers and/or containers with lids	The Region has explored the option using carts for residential curbside collection. The results of that research indicate that the costs of that change would be prohibitive at this time. In addition, cart programs utilize single stream recycling collection, which have higher rates of contamination than the two stream recycling program that Niagara Region is currently using and would negatively affect revenue from the sale of recyclables.



Appendix 8 LDR Telephone and On-line Survey Results

A quantitative survey with residents of Niagara Region



Metroline Research Group Inc.

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LOW DENSITY RESIDENTIAL



1.0 Current Attitudes/Behaviour

1.1 Importance of Waste Diversion

Q11 - How important would you say it is that Niagara region works to reduce the amount of garbage that is sent for disposal? (Full sample)

Diverting waste is important to the vast majority of residents in Niagara Region. In total, 94% of those in the telephone survey said it is 'important' to them, with 72% saying "very" important, and 22% saying "somewhat" important. Only 4% told us it was "not important", or they "don't know".

Residents in the online survey scored the importance slightly lower, but even still 87% find waste diversion important.

This question was asked in Hamilton in 2016, and the results were similar to what Niagara Region residents have said in this survey. Residents in both surveys feel that waste diversion is important, but in the random telephone survey are more likely to say it is "very" important.

Figure 1.1a – Importance of waste diversion by survey type

	Telephone (n=1,253)	Online (n=6,639)
Very important	72%	52%
Somewhat important	22%	35%
Not very important	3%	8%
Not important at all	2%	3%
Don't know	1%	2%

Figure 1.1b ¹– Importance of waste diversion by survey type (Hamilton)

Hamilton Waste Survey	Telephone (n=800)	Online (n=1,468)
Very important	75%	60%
Somewhat important	21%	30%
Not very important	2%	6%
Not important at all	1%	3%
Don't know	1%	1%

¹ City of Hamilton Waste Management Services Public Engagement Survey – Metroline Research Group, 2016



Where relevant, this report will indicate statistically significant differences by sub-groups for the random telephone survey.

Respondent Sub-Segment Findings (Telephone)

- Women (76%) are more likely to say reducing the amount of garbage sent for disposal is "very" important than men (68%).
- Those 65+ years (76%) and those 45-64 years (73%) are more likely to find it "very" important than those 18-44 years (63%).
- Those participating in the organics collection program (74%) are more likely to find it "very" important than those who are not (67%).
- Those who support clear bags (80%) more likely to find it "very" important than those who do not (65%).
- Those who could manage every-other-week (EOW) garbage collection (80%) are more likely to find it "very" important than those who would continue to need/want weekly collection (64%).

Figure 1.1c - Importance of waste diversion by municipality

(Random telephone survey)	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
Very important	72%	81%	73%	83%	74%	80%	76%	73%	68%	61%	60%	69%	73%
Somewhat important	22%	14%	17%	13%	22%	16%	19%	19%	24%	31%	32%	24%	22%
Not very important	3%	3%	3%	1%	2%	2%	4%	4%	4%	4%	5%	3%	4%
Not important at all	2%	2%	3%	3%	1%			1%	4%	3%	3%	2%	1%
Don't know	1%		4%		1%	2%	1%	3%		1%		2%	

Looking across the municipalities in Niagara Region, there are some differences when residents were asked to choose an importance level. Primarily though this difference is between "very" and "somewhat" important.

Overall, the sentiment of important (very/somewhat) vs. not important (not very/not important/don't know) is pretty similar. At least 9 in 10 residents for all municipalities find diverting waste to be 'important'.



1.2 Garbage Limits

Q12 - Niagara Region allows for one bag/container of garbage to be put out per week. Dimensions of the container cannot exceed three feet high by two feet wide (91cm by 61cm) and must not weight more than 50 pounds. Which of the following best describes your situation in an average week? (Full Sample)

Residents were pretty much evenly split about how much garbage they put out at the curb in an average week.

On one side is the group (53% combined) who put out the maximum one bag (42%) and those who need more than one bag (11%).

On the other side (47% combined) is the group who doesn't have a full bag (34%) or sometimes can afford to skip a week (13%).

	Telephone (n=1,253)	Online (n=6,639)
We put out more than one garbage bag/container	11%	9%
We put out one full garbage bag/container	42%	49%
On a weekly basis, our garbage bag/container is not completely full	34%	29%
Some weeks, we do not have enough to put out the garbage bag/container	13%	13%

Figure 1.2a – Typical garbage set out by survey type

Respondent Sub-Segment Findings (Telephone)

- Those 18-44 years are more likely to put out a full bag or more (72%) than those 45-64 years (50%) and those 65+ years (45%).
- Those living in households of three or more people are more likely (73%) to put out a full bag or more than those in households of two people (41%) and those in single person households (30%).
- Those with a household member using diapers are more likely to put out a full bag or more (87%) than those without (51%).
- Those who use seven or more bag tags a year are more likely to put out a full bag or more (91%) than those who use 1-6 tags (61%) and those use don't use any tags in an average year (42%).
- Those who do not participate in the organics program are more likely to put out a full bag or more (63%) than those who participate (49%).
- Those who would need to continue weekly garbage collection are more likely to put out a full bag or more (70%) than those who could manage EOW (33%).



Figure 1.2b – Typical garbage set out by municipality

(Random telephone survey)	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
We put out more than one garbage bag/ container	11%	7%	11%	8%	13%	9%	10%	4%	11%	11%	16%	14%	8%
We put out one full garbage bag/container per week	42%	45%	35%	35%	44%	43%	34%	45%	41%	50%	39%	46%	49%
On a weekly basis, our garbage bag/container is not completely full	34%	30%	37%	45%	34%	34%	44%	39%	35%	24%	32%	25%	34%
Some weeks, we do not have enough to put out the garbage bag/container	13%	18%	17%	12%	9%	14%	12%	12%	13%	15%	13%	15%	9%

All percentage differences fall within the margin of error. There are a few trends in the data, however these could potentially be a result of the size of the households interviewed for the study rather than something unique to the municipalities:

- Residents of Thorold (60%), Welland (60%) and Niagara Falls (57%) are slightly higher in putting out one bag or more per collection.
- Residents of Lincoln (43%) and Pelham (44%) and Grimsby (46%) are slightly lower in putting out one bag or more per collection.

1.3 Garbage Tags

Q13 - How many tags for additional garbage bags does your household buy and use in an average year, if any? (Full Sample)

About two-thirds of the community (65%) told us they do not buy/use any garbage tags in the course of an average year.

About one-third (35%) will use a garbage tag at least once a year on average, between those buying and using one to six tags (24%), and those using seven or more tags (11%).

Figure 1.3a – Garbage tags used by survey type

(Random telephone survey)	Telephone	Online
	(n=1,253)	(6,639)
None	65%	49%
1-6	24%	32%
7+	11%	19%



Respondent Sub-Segment Findings (Telephone)

Household size was the biggest determinant in using garbage tags. About half of those (48%) of household with three or more people require at least one tag a year. 20% of households with three or more people use seven or more tags a year.

Figure 1.3b – Garbage tags used by household size

(Random telephone survey)	Total	Н	ousehold Si	ze
	(n=1,253)	1	2	3+
None	65%	86%	72%	52%
1-6	23%	10%	23%	28%
7+	12%	4%	5%	20%

Age is also a determining factor. The younger the resident in the survey, the more likely they were to have used bag tags.

Figure 1.3c – Garbage tags used by age group

(Random telephone survey)	Total		Age group	
	(n=1,253)	18-44	45-64	65+
None	65%	54%	62%	78%
1-6	23%	25%	27%	17%
7+	12%	21%	11%	5%

Other significant findings:

- Those who deal with infant/adult diapers (53% use at least one a year) are more likely to need bag tags than those without diapers (33% use at least one per year).
- Those who need to put out more than one bag of garbage per week are more likely to use at least one bag tag per year (67%) than those who put out one bag per week (41%), those who put out a bag per week that isn't full (26%), and those who can afford to occasionally skip a week (12%).
- Those who need to continue having garbage picked up weekly are more likely to use at least one bag tag per year (41%) than those who could manage every-other-week (27%).



Figure 1.3d – Garbage tags used by municipality

(Random telephone survey)	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
None	65%	69%	69%	74%	61%	69%	77%	60%	62%	60%	75%	58%	73%
1-6	23%	21%	19%	21%	25%	24%	19%	32%	24%	24%	16%	29%	20%
7+	12%	10%	12%	5%	14%	7%	4%	8%	14%	16%	9%	13%	7%

Municipalities less likely to have used any garbage tags in the past year:

• Pelham (23%), Wainfleet (25%), Lincoln (26%) and West Lincoln (27%)

Municipalities more likely to have used a garbage tag in the past year:

• Welland (42%), Thorold (40%), Niagara Falls (39%) and St. Catharines (38%)



1.4 Waste Collection Participation

Q21 – Does your household put out the following items for curbside collection? (Full sample)

Virtually all households in Niagara Region are participating in the recycling program (99%/99%).

About 7 in 10 households say they participate in the organics collection program. The participation level is virtually the same between the random telephone survey and the online survey (71%/72%).

Participation in leaf/yard waste collection is next (63%/82%), and the brush collection in spring and fall (52%/63%).

Participation in both the appliances/scrap metal collection (26%/27%), and the bulky/large item collection (35%/46%) is lower.

Waste Collection Participation

Recycling - Blue and/or Grey Box

Organics - Green Bin

Appliances/scrap metal

Bulky/large items

Leaf/Yard waste

Brush in spring/fall

Waste Collection Participation

99%
99%
99%
46%
63%
81%

■ Telephone
■ Online

Figure 1.4a – Waste collection program participation by survey type



80%

45%

88%

55%

The percentages were different, but we found a similar sentiment/pattern in Hamilton in 2016.

Virtually all participate in recycling, the organics collection and yard waste collection (which included brush in this survey) were next, and the bulky/large item collection (which includes scrap metal/appliances) had the lowest participation.

Hamilton Waste SurveyTelephone (n=800)Online (n=1,468)Blue Box recycling99%99%Organics/Green Bin83%84%

Figure 1.3b ²— Waste collection program participation by survey type (Hamilton)

Respondent Sub-Segment Findings (Telephone)

Participate in Organics/Green Bin collection

- Those 65+ years (77%) and 45-64 years (73%) are more likely to participate than those 18-44 years (55%).
- Those in a single person household (72%) and dual person household (74%) are more likely to participate than those in a household of three or more people (66%).

Yard waste

Bulky/large item collection

- Those with no household members using diapers (72%) are more likely to participate than those with a household member in diapers (50%).
- Those who can afford to skip a weekly collection (81%), and those who put out a garbage bag every week that isn't full (76%) are more likely to participate than those who put out a full bag every week (68%) or those who put out more than one bag (52%).
- Those who can manage every-other-week collection (77%) are more likely to participate than those who need to continue having their garbage collected every week (66%).

Participate in bulky/large item collection

- Those in households of three or more (37%) and two people (35%) are more likely to participate than those in single person households (28%).
- Those who use seven or more bag tags per year (45%) or 1-6 bag tags (44%) are more likely to participate than those who do not use bag tags in an average year (30%).

² City of Hamilton Waste Management Services Public Engagement Survey – Metroline Research Group, 2016



Participate in leaf/yard waste pickup

- Those who could manage garbage collection every-other-week are more likely to participate (67%) than those who need to continue having garbage picked up weekly (61%).
- Those who participate in organics collection are more likely to participate in leaf/yard waste pickup (71%) than those who do not participate in organic collection (45%).

Participate in brush pickup

- Those who could manage garbage collection every-other-week are more likely to participate (54%) than those who need to continue having garbage picked up weekly (47%).
- Those who participate in organics collection are more likely to participate in brush pickup (56%) than those who do not participate in organic collection (36%).

Figure 1.4c – Waste collection program participation by municipality

(Random telephone survey)	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
Recycling – Blue and/or Grey	99%	99%	100%	99%	100%	97%	99%	99%	100%	97%	96%	98%	99%
Box													
Organics – Green Bin	71%	63%	84%	73%	72%	73%	70%	75%	74%	74%	59%	64%	60%
Appliances/Scrap Metal	26%	16%	36%	19%	35%	24%	19%	19%	34%	30%	23%	24%	7%
Bulky/Large Items	35%	36%	36%	27%	42%	28%	29%	31%	44%	41%	25%	36%	14%
Leaf/Yard Waste	63%	45%	77%	55%	73%	58%	59%	55%	82%	70%	19%	68%	35%
Brush in spring/fall	50%	32%	53%	45%	60%	52%	43%	35%	69%	55%	12%	50%	28%

Participation rates in the different programs vary by municipality. Some of this may be a result of their geographical location. Municipalities in areas that are less urban may have residents with larger properties to manage their own composting and leaf/yard waste or brush disposal, for example.



19%

1.5 **Recycling Participation**

1.5.1 Blue Boxes

Q22 - Blue Box recycling includes containers that are made of plastic, metals, glass or styrofoam. How many Blue Boxes does your household put out at the curb in an average week? (Base – Converted to full sample)

One per week

Two or more per week

Virtually all residents (99%) of Niagara Region are participating in the recycling program.

97% of residents in the telephone survey are putting out at least one blue box per week. About 1 in 5 residents puts out two or more blue boxes per week.

Telephone Online (n=1,253)(n=6,639)None/Not participating in program 1% 1% Less than once a week 2% 78%

Figure 1.5.1a – Number of Blue Boxes by survey type

Respondent Sub-Segment Findings (Telephone)

- Household size was a primary factor in the number of blue boxes. Households of three or more people are most likely to be putting out two or more boxes (34%), compared to two person households (9%) and single person households (3%).
- Those 18-44 years (29%) are most likely to be putting out two or more boxes, compared to those 45-64 years (23%) and those 65+ years (7%).
- Those buying the most (7+) garbage tags per year are also most likely to put out 2+ blue boxes (42%), compared to those who buy 1-6 tags (20%), and those who do not use garbage tags (15%).
- Those who would need to continue having waste collected weekly are most likely to be putting out two or more blue boxes (22%), compared to those who could manage every-other-week collection (16%).



70%

29%

Figure 1.5.1b – Number of Blue Boxes by municipality

(Random telephone survey)	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
None/Not participating	1%	2%	1%	1%	1%	4%	3%	1%		4%	4%	2%	1%
Less than once a week	2%		2%	3%	1%	3%		1%	1%			4%	
One per week	78%	85%	81%	84%	79%	75%	77%	82%	80%	74%	71%	71%	75%
Two or more per week	19%	13%	16%	12%	19%	18%	20%	16%	19%	22%	25%	23%	24%

Across all municipalities, there is not much difference when looking at the percentage of households who put out at least one blue box per week on average. Niagara-on-the-Lake was lowest, but even there it was 93% of households.

1.5.2 Grey Boxes

Q24 – Grey Box recycling includes items such as paper, cardboard, cereal boxes, tissue boxes, etc., and bundled plastic bags. How many Grey Boxes does your household put out at the curb in an average week? (Base – Converted to full sample)

Almost all Niagara residents are participating in the grey box recycling program as well. Slightly fewer (92%) than the blue box (99%) participation.

92% of Niagara low-density households put out at least one grey box per week on average.

Residents are less than half as likely (8%) to put out two or more grey boxes than blue boxes (19%).

Figure 1.5.2a – Number of Grey Boxes by survey type

	Telephone (n=1,253)	Online (6,639)
None/Not participating in program	6%	2%
< 1 x week	2%	1%
One per week	84%	81%
Two or more per week	8%	16%



Respondent Sub-Segment Findings (Telephone)

- Household size a factor once again. Those in households of three or more people are most likely (14%) to put out two or more grey boxes, compared to two person households (4%) and single person households (2%).
- Those 18-44 years are most likely to put out two or more grey boxes (14%), compared to those 45-64 years (9%) and those 65+ years (2%).
- Those buying the most (7+) garbage tags per year are also most likely to put out 2+ grey boxes (20%), compared to those who buy 1-6 tags (8%), and those who do not use garbage tags (6%).

Figure 1.5.2b – Number of Grey Boxes by municipality

(Random telephone survey)	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1.253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
None / Not participating	6%	8%	4%	5%	4%	8%	4%	4%	3%	8%	13%	4%	12%
< 1 per week	2%		1%	3%	3%	3%	4%	4%	1%	1	1%	3%	
One per week	84%	91%	88%	87%	85%	81%	84%	84%	85%	84%	79%	84%	80%
Two or more per week	8%	1%	7%	5%	8%	8%	8%	8%	11%	8%	7%	9%	8%

As with the blue box recycling, there is no difference statistically by municipality. Only two municipalities are below 90% of residents putting out at least one grey box in an average week – Wainfleet (86%) and West Lincoln (88%).



1.6 Green Bin/Organics Participation

Q26 – Green Bin organics program includes food waste, paper napkins/towels/bags, paper take-out trays/egg cartons, coffee grounds/filters & tea bags. How many Green Bins or containers marked as organics does your household put out at the curb in an average week? (Base – Converted to full sample)

About 7 in 10 (71%) of Niagara Region residents told us they are participating in the organics collection program. That number dropped slightly when looking at green bins in an average month, to 69%.

68% of residents in the telephone survey told us they put out at least one green bin per week. In this particular question, the finding of the online survey was similar, where 70% told us they are putting out one green bin per week on average.

(Random telephone survey) Telephone Online (n=1,253) (n=6,639)None / Not participating 31% 29% Less than one per week 1% 1% One per week 63% 63% 5% 7% Two or more per week

Figure 1.6a – Number of Green Bins by survey type

Respondent Sub-Segment Findings (Telephone)

- Those 65+ years (73%) and 45-64 years (70%) are more likely to put out at least one green bin per week than those 18-44 years (53%).
- Those using diapers for someone in their household (49%) are <u>less</u> likely to put out at least one green bin per week than those with no diapers in their household (69%).
- Those who do not use any garbage tags in an average year (68%) and those who use 1-6 garbage tags per year (70%) are more likely to put out at least one green bin per week than those who use 7+ garbage tags per year (57%).
- Those who would need to continue having waste collected weekly (62%) are <u>less</u> likely to put out one or more green bins per week compared to those who could manage every-other-week collection (73%).
- Those who feel there would be little to no impact to their household with every-other-week collection (72%) are more likely to be putting out at least one green bin per week than those who feel every-other-week would have at least some impact (62%).



• Those who can afford to skip a week on garbage collection occasionally (77%), and those who put out less than one full bag/container per week (73%) are more likely to be putting out at least one green bin per week, compared to those who put out one full bag/container per week (65%) and those who put out more than one full bag/container per week (48%).

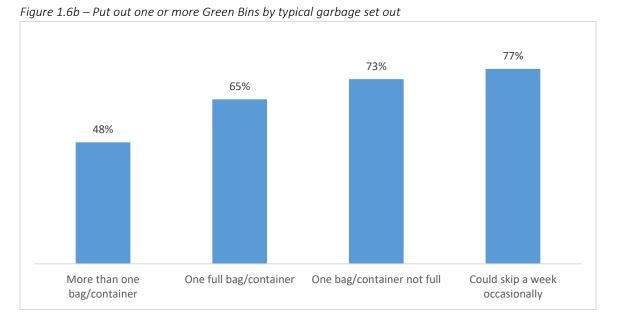


Figure 1.6c – Number of Green Bins by municipality

(Random telephone survey)	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
None / Not participating	31%	39%	17%	28%	28%	27%	32%	29%	28%	27%	45%	36%	46%
< 1 per week	1%	1%	2%		1%	3%		1%	1%	3%		3%	
One per week	63%	57%	76%	72%	65%	61%	62%	56%	65%	66%	51%	58%	54%
Two or more per week	5%	3%	5%		6%	9%	6%	14%	6%	4%	4%	3%	



1.6.1 Not participating in Green Bin/Organics collection

Q28 – Why do you not participate in the Green Bin/Organics program? (Base – Not participating)

Just under a third (31%) of those not participating in the Green Bin/Organics program told us they are doing their own composting/vermiposting.

"We have a farm and dispose of it in our manure pile..."

The next biggest barrier to participating in the Green Bin/Organics program is a concern about smells/odours. 13% of those not participating in this program indicated they do not participate because of a worry about the smell.

"It smells awful. We freeze organic waste throughout the week and dispose with the trash on garbage day. You can always tell when someone uses the green organics bin as soon as you walk into their house. It isn't practical..."

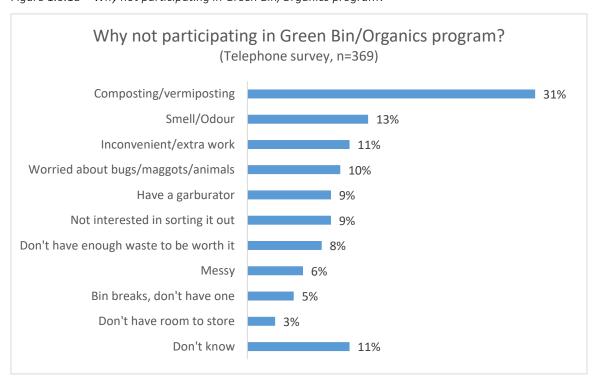


Figure 1.6.1a – Why not participating in Green Bin/Organics program?

Lack of motivation was third, with people telling us that separating the waste was inconvenient or extra work for them (11%).

"Waste of time separating items and keeping another bin full of stinking food around for rodents and insects to find..."



The other major barrier is a concern about bugs/maggots/animals in and around the green bin (10%).

"Many animals in my neighbourhood makes it difficult to keep the organics from being eaten. I have the same problem with my regular garbage container..."

The 'ick' factor was expressed as well, with 6% talking about the process being messy and 9% not being interested in sorting out the waste for the Green Bin.

"I find it gross and disgusting..."

"Because I do not have very much for the green bin and find it disgusting to deal with in the summer..."





5%

10%

1.7 Appliances/Scrap Metal Participation

1.7.1 Put out at the curb

Q29 - How many times per year would you say your household puts out appliances or scrap metal at the curb for collection? (Base –Converted to full sample)

4 in 5 households in Niagara Region (80%) told us they do <u>not</u> participate in the appliances/scrap metal collection program. Among those who have participated, at most is was about once a year.

The results of the online survey are similar in this case, with 75% not participating in the program.

Figure 1.7a – Appliance/Scrap Metal participation by survey type

Telephone (n=1,253) (n=6,369)

None / Not participating 80% 75%

Once per year 15% 15%

Respondent Sub-Segment Findings (Telephone)

• Those 18-44 years (21%) and those 45-64 years (22%) are more likely than those 65+ years (15%) to participate in the program at least once a year on average.

Twice or more per year

- Those with households of three or more people (23%) and households of two people (20%) are more likely than those in single person households (13%) to participate in the program at least once a year on average.
- Those who use 7+ garbage tags per year (27%) and those who use 1-6 garbage tags per year (25%) are more likely than those who do not use garbage tags (17%) to participate in the program at least once a year on average.

Figure 1.7a – Appliance/Scrap Metal participation by survey type

(Random telephone survey)	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
None / Not participating	80%	86%	73%	85%	75%	81%	85%	84%	75%	77%	81%	84%	95%
Once per year	15%	11%	23%	15%	16%	18%	8%	8%	19%	19%	16%	11%	4%
Twice or more per year	5%	3%	4%		9%	1%	7%	8%	6%	4%	3%	5%	1%



1.7.2 Scheduling a pick up

Q210 - Do you schedule a pick up with Niagara Region for scrap metal or appliances, or put them out at the curb for anyone to pick up without scheduling a pick up? (Base – Participate at least once a year on average)

Those who participate in the appliances/scrap metal program at least once a year on average were asked how they arrange for pick up.

Three-quarters (74%) of program participants told us they schedule a pick up with Niagara Region, and one-quarter (26%) will simply put the item at the curb.

Figure 1.7.2a – Appliance/Scrap Metal pick up typ	oe by survey type	
Note: Sample size varies according to	Telephone	Online
participation rates and survey type	(n=249)	(n= 1,696)
Schedule a pick up	74%	77%
Leave out	26%	23%

The online survey respondents felt similarly (77% scheduled, 23% leave at curb).

Respondent Sub-Segment Findings (Telephone)

- Women (81%) were more likely than men (65%) to say they scheduled a pick up.
- Those 65+ years (88%) were more likely to have scheduled a pick up than those 45-64 years (72%) or those 18-44 years (64%).

Figure 1.7.2b – Appliance/Scrap Metal pick up type by municipality

			. ,										
Note: Sample size varies	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
according to participation rates	(n=249)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
and survey type													
Schedule a pick up	74%	92%	90%	82%	69%	85%	73%	83%	69%	65%	79%	74%	75%
Leave out	26%	8%	10%	18%	31%	15%	27%	17%	31%	35%	21%	26%	25%



1.8 Bulky/Large Item Collection

1.8.1 Put out at the curb

Q211 - Bulky/large item collection includes items like carpet and furniture. How many times per year would you say your household puts out items like this out at the curb for collection? (Base – Converted to full sample)

More households (29%) do participate in bulky/large item collection compared to the scrap metal/appliances collection (20%).

In total, 29% of households told us they participate at least once a year, with the majority (19%) of households participating once a year, and 10% of households participating two or more times a year on average.

Figure 1.8a – Bulky/Large Item collection by survey type

Telephone (n=1,253)

None/not participating
71%
56%

Once per year
19%
20%

Twice or more per year
10%
24%

Those in the online survey told us they are participating more often.

Respondent Sub-Segment Findings (Telephone)

- Those in households of three or more are more likely to participate at least once a year (33%), compared to households of two people (28%), or single person households (19%).
- Those who use 7+ garbage tags per year (43%) are more likely to participate at least once a year (43%), compared to those who use 1-6 garbage tags per year (38%) and those who do not use garbage tags (23%).

Figure 1.8b – Bulky/Large Item collection by municipality

	Total (n=1,253)	Fort Erie	Grimsby	Lincoln	Niag. Falls	NOTL	Pelham	Pt. Colb.	St. Cath.	Thor.	Wain- fleet.	Welland	West Lincoln
None	71%	71%	72%	83%	67%	78%	74%	72%	61%	66%	80%	70%	89%
Once per year	19%	19%	24%	13%	20%	14%	14%	15%	25%	27%	16%	18%	8%
Twice or more per year	10%	10%	4%	4%	13%	8%	12%	13%	14%	7%	4%	13%	3%



1.8.2 Scheduling a pick up

Q212 - Do you schedule a pick up with Niagara Region for these bulky/large items, or put them out at the curb for anyone to pick up without scheduling a pick up? (Base – Participate at least once a year on average)

Those participating in the bulky/large item pick up are most likely going to be scheduling a pick up with Niagara Region. 94% said they would schedule a pickup for bulky/large items, compared to 74% of those participating in scrap metal/appliances.

Figure 1.8.2a – Bulky/Large Item collection type by survey type

Note: Sample size varies according to participation rates and survey type	Telephone (n=365)	Online (n=2,943)
Schedule a pick up	94%	92%
Leave out	6%	8%

Figure 1.8.2b – Bulky/Large item collection type by municipality

Note: Sample size varies	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
according to participation rates	(n=365)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
and survey type													
Schedule a pick up	94%	96%	95%	100%	97%	93%	100%	81%	92%	92%	100%	94%	87%
Leave out	6%	4%	5%		3%	7%		19%	8%	8%		6%	13%



2.0 Waste Collection Options For Next Contract

For Niagara Region's new waste collection (garbage, recycling and organics) contract, residents and businesses are being asked for their opinion about several proposal collection options. Adopting some or all of these opt9ions would help reduce the amount of waste going to disposal, and limit future costs to businesses and taxpayers.

The purpose of this survey is to receive feedback from residents on the possible collection options and to help Regional staff understand resident's feelings about each option.



2.1 Bulky/Large Item Collection

Q31 - The first option is related to large or bulky item pick up, such as carpet or furniture. The change would be to limit the number of large/bulky items collected to a maximum of four per week. In 2018, 92% of the bookings for large or bulky item pick up were for four items or less. If Niagara Region was to make this change, what would be the impact on your household? (Base – Full sample)

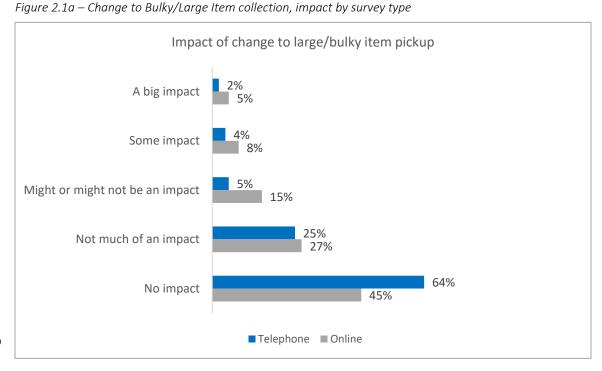
Making a change to the bulky/large item collection so that a maximum of four items per collection can be put out will not unduly impact Niagara region residents.

6% of residents in the telephone survey, and 14% in the online survey feel this change would have an impact on their household.

The vast majority told us there would be little to no impact to them (94% of households in telephone survey, 87% of households in the online survey).

Respondent Sub-Segment Findings (Telephone)

• Those in households of three or more (8%) are slightly more likely to feel impacted, compared to households of two people (5%) and single person households (4%).



• Those who use 7+ garbage tags per year (16%) are most likely to feel there would be an impact on their household, compared to those who use 1-6 garbage tags per year (5%) and those who do not use garbage tags (4%).



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Figure 2.1b – Change to Bulky/Large Item collection, impact by municipality

	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
A big impact	2		7%		2%		1%		1%	4%		2%	1%
Some impact	4	1%	8%	3%	7%	2%	3%	7%	5%	3%	1%	3%	4%
Might or might not be an	5	5%	4%	5%	7%	8%	6%	7%	4%	3%		11%	4%
impact													
Not much of an impact	25	23%	21%	30%	33%	21%	19%	25%	27%	30%	11%	23%	19%
No impact	64	71%	60%	62%	51%	69%	71%	61%	63%	60%	88%	61%	72%



2.2 Appliances/Scrap Metal Collection

Q32 – The second option under consideration would eliminate curbside pickup by Niagara Region of appliances and scrap metal. Currently, residents can go online and schedule a pick up of items at their home. Only 6% of Niagara households are using the curbside collection of appliances and scrap metal service. Also, as much as 60% of these items that are being put out have already been removed by the time crews arrive to pick them up. There would continue to be an opportunity for residents to take the items to a regional drop-off depot, at no charge, or have it picked up by private scrap metal haulers. If Niagara Region was to make this change, what would be the impact on your household? (Base – Full sample)

Dropping/stopping the appliance/scrap metal collection program would have some impact on about 1 in 5 households in Niagara region. 17% of households in the telephone survey, and 22% in the online survey feel there would be at least some impact.

83% of households in the telephone survey, and 78% of the households in the online survey, feel there would be little to no impact on their household.

Respondent Sub-Segment Findings (Telephone)

- Those who use 7+ garbage tags per year (23%) are most likely to feel there would be an impact on their household, compared to those who use 1-6 garbage tags per year (18%) and those who do not use garbage tags (14%).
- Those who would need to continue to have their garbage picked up weekly are more likely to find at least some impact (19%) than those who could manage every-other-week collection (12%).

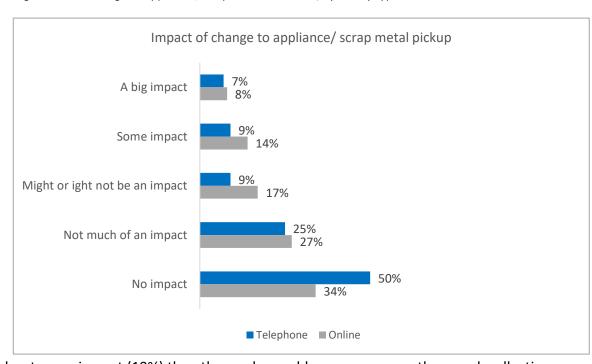


Figure 2.2a – Change to appliance/scrap metal collection, by survey type



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Figure 2.2b – Impact of change to appliance/scrap metal collection, by municipality

	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
A big impact	7%		11%	7%	8%	10%	7%	9%	7%	8%	3%	8%	4%
Some impact	9%	8%	11%	4%	11%	13%	7%	11%	10%	5%	9%	8%	7%
Might or might not be an	9%	14%	11%	12%	11%	12%	8%	4%	9%	10%	1%	8%	10%
impact													
Not much of an impact	25%	28%	25%	25%	27%	23%	27%	20%	28%	34%	11%	23%	16%
No impact	50%	50%	43%	52%	43%	42%	51%	56%	46%	43%	76%	53%	63%



2.3 Clear Bags

2.3.1 Support for clear bags

Q33 – A third option under consideration is the mandatory use of clear garbage bags. Some municipalities in Canada have already made this change. The cost for the clear bags would be about the same as green/black garbage bags. Clear garbage bags will make it easier to see recyclable or organic material that should be placed in the Blue/Grey Box or Green Bin or Hazardous Waste items that should be disposed of safely. A smaller opaque bag, such as a grocery bag, can be placed inside the clear garbage bag for disposing of sensitive or personal items. Would you support a switch to clear garbage bags? (Full Sample)

Household support for the mandatory use of clear bags in the telephone survey was surprisingly a fairly even split. 48% would support (definitely or probably), and 52% do not support.

It's a different picture when looking at the sentiment expressed in the online survey. 27% would support, and 73% oppose.

Respondent Sub-Segment Findings (Telephone)

 Those who would need to continue to have their garbage picked up weekly are more likely to support the use of clear bags (57%) than those who could manage every-other-week collection (40%).

Definitely would support

Probably would support

Might or might not support

Probably would not support

14%

Probably would not support

Definitely would not support

26%

14%

22%

14%

A6%

■ Telephone ■ Online

Figure 2.3.1a – Support for mandatory clear garbage bags by survey type



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Figure 2.3.1b – Support for mandatory clear garbage bags by municipality

	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
Definitely would support	26%	19%	24%	28%	26%	30%	33%	24%	23%	20%	26%	33%	27%
Probably would support	22%	26%	28%	23%	19%	16%	15%	24%	26%	30%	16%	20%	19%
Might or might not support	14%	17%	14%	12%	13%	19%	16%	19%	15%	16%	8%	13%	11%
Probably would not support	14%	17%	17%	17%	16%	12%	12%	7%	14%	8%	13%	15%	12%
Definitely would not	24%	21%	17%	20%	26%	23%	24%	26%	22%	26%	37%	19%	31%
support													



2.3.2 Why support/not support?

Q34 – Why do you say that (support/not support clear bags)? (Full Sample)

	Total	Support clear	Oppose clear
		bags	bags
Keeps unwanted items from landfill	28%	51%	6%
Encourages use of Blue/Grey boxes and Green Bins	25%	48%	5%
Concerned about invasion of privacy	25%	8%	40%
Don't want my neighbours seeing my garbage	14%	3%	24%
Concerned about strength of clear bags	5%	2%	8%
We do not need "garbage police"	5%	1%	8%
Added cost/more effort	4%	1%	8%
Neutral/indifferent (General)	4%	6%	3%
We only use small grocery bags	3%	1%	5%
Stupid/no need (General)	2%		3%
Safer/better for waste management people	1%	3%	

NOTE: All other responses are less than one percent total

"Clear bags tend to cost more money and are not as readily available. I also think having them curbside looks gross vs a black garbage bag. That being said I can understand why this idea could potentially reduce the amount of unacceptable items..."

"I just don't buy garbage bags so that would be an extra expense for us. Otherwise I am on board, we have nothing to hide..."

"Taking the trouble to separately sort embarrassing or secure sensitive material is annoying..."

"Clear bags are more expensive for one. The world doesn't need to see my garbage. Are you going to refuse pick up if I have recyclables in my trash? What about recycling that can't be cleaned like pizza boxes? Teaching what can be recycled and what can't would be far better..."

"If it becomes mandatory I will of course comply but personal items aside, I am not a fan of having my neighbours being able to see what I purchase, eat or throw out. Items come into my house concealed in shopping bags and that privacy with them going out is just as important to me..."



2.4 Every Other Week Garbage Collection

2.4.1 Managing every-other-week collection

Q35 – In Niagara Region an average of 50% of every garbage bag is food waste. A fourth option under consideration, that is already in practice in many other municipalities which encourages residents to use their Green Bin, is to pick up garbage every-other-week, but continue to collect unlimited Blue/Grey Boxes and Green Bins every week. There would be no change or reduction in the garbage container limit, but there would be less frequent pickup. With collection every-other-week, you would be allowed two garbage bags/containers. Based on your household's waste practices, would you be able to manage? (Full Sample)

Residents were split on their feelings about garbage collection every-otherweek, with slightly more leaning towards continuing their weekly collection.

46% of the telephone survey, and 41% of those in the online survey could manage every-other-week collection.

Figure 2.4.1a – Ability to manage Every Other Week garbage collection by survey type

	Telephone (n= 1,253)	Online (n=6,369)
Be able to manage EOW collection	46%	43%
Need to continue weekly collection	54%	57%

	Niagara	Region	Waterloo Region ³		
	Telephone (n=1,253)	LDR Online (n=6,639)	Telephone (n=511)	Online (n=7,087)	
Be able to manage garbage collection every-other-week	46%	43%	50%	36%	
Need to continue having your garbage picked up weekly	54%	57%	50%	64%	

³ Region of Waterloo Waste Survey, Metroline Research Group Inc., 2014



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Respondent Sub-Segment Findings (Telephone)

- Residents 65+ years are more likely to be able to manage every-other-week collection (51%), compared to those 45-64 years (45%) and those 18-44 years (41%).
- Those in single person households (62%) are more likely to be able to manage every-other-week collection than those in two person households (50%), and those in households of three or more (37%).
- Households with no one using diapers are more likely to be able to manage every-other-week collection (47%) than those with someone in diapers (31%).
- Those who do not use garbage bag tags in an average year are more likely to be able to manage every-other-week collection (52%) than those who use 1-6 garbage tags (41%) and those who use 7+ garbage tags (24%).
- Those who participate in organics collection are more likely to be able to manage every-other-week collection (50%) compared to those who are <u>not</u> currently participating in organics collection (37%).
- Those who support mandatory use of clear bags (55%) are more likely to be able to manage every-other-week collection (55%) than those who oppose mandatory clear bags (38%).
- Those who currently put out more garbage are <u>less</u> likely to say they could manage every-other-week collection

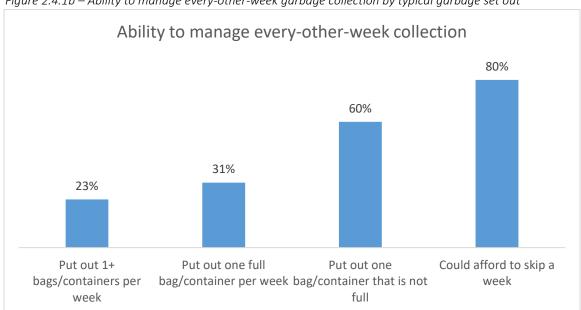


Figure 2.4.1b – Ability to manage every-other-week garbage collection by typical garbage set out



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Figure 2.4.1b – Ability to manage Every Other Week garbage collection by municipality

	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
Be able to manage EOW collection	46%	52%	48%	52%	36%	50%	52%	40%	50%	47%	40%	49%	38%
Need to continue weekly collection	54%	48%	52%	48%	64%	50%	48%	60%	50%	53%	60%	51%	62%



2.4.2 Impact of every-other-week collection

Q36 – If Niagara Region collected garbage bags every-other-week, but collected your Blue/Grey Boxes and Green Bins every week, what would be the impact on your household? (Full Sample)

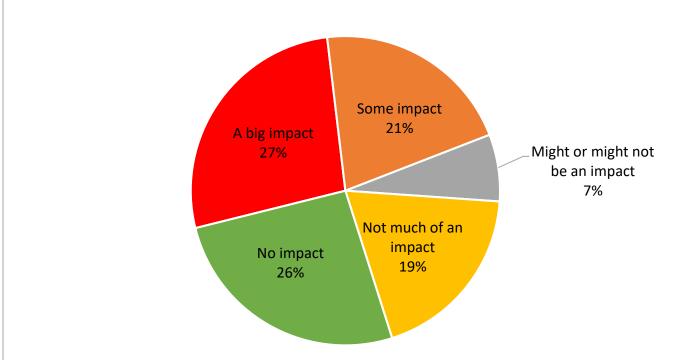
Figure 2.4.1a – Impact of Every Other Week garbage collection (Telephone)

In the telephone survey, just under half of residents (48%) feel there would be at least "some" impact on their household if Niagara Region switched to every-otherweek garbage collection (while continuing to collect blue/grey boxes and green bins weekly).

A slight majority (52%) feel there would be little to no impact to their household.

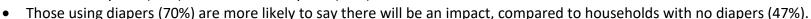
Respondent Sub-Segment Findings (Telephone)

- Those in households of three or more (62%) are more likely to say there would be a big/some impact, compared to households of two people (40%) and single person households (33%).
- Those 18-44 years (59%) are more likely to say there would be a big/some impact, compared to those 45-64 years (48%) and those 18-44 years (41%).



Impact of Every Other Week garbage collection

(Telephone, n=1,253)





Niagara Region Waste Collection – December, 2018

- Those using 7+ garbage bag tags per year (76%) are more likely to say there will be an impact, compared to those using 1-6 garbage tags (55%) and those not using garbage tags (41%).
- Those <u>not</u> participating in the green bin/organics collection are more likely to say there will be an impact (57%) than those who are participating (45%).

Figure 2.4.1b – Impact of Every Other Week garbage collection

	Niagara	Region	Hamilt	ton ⁴	Waterloo	Region ⁵
	Telephone (n=1,253)	Online (n=6,639)	Telephone (n=800)	Online (n=1,468)	Telephone (n=511)	Online (n=7,087)
A big impact	27%	37%	34%	44%	25%	18%
Some impact	21%	21%	20%	19%	29%	24%
Might or might not be an impact	7%	9%	6%	8%	7%	10%
Not much of an impact	19%	17%	18%	13%	22%	24%
No impact	26%	16%	22%	16%	17%	24%
Impact Ratio (Big/Some vs. Not much/no impact)	+3	+25	+14	+34	+15	-6

While 48% of Niagara region resident indicate every-other-week collection would have some impact on their household, these numbers are lower than the 54% of residents in Hamilton and Waterloo Region who indicated there would be an impact on their household.

⁵ Region of Waterloo Waste Survey, Metroline Research Group Inc., 2014



⁴ City of Hamilton Waste Management Services Public Engagement Survey – Metroline Research Group, 2016

Niagara Region Waste Collection – December, 2018

Figure 2.4.1c – Impact of Every Other Week garbage collection by municipality

	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
A big impact	27%	19%	32%	16%	38%	15%	18%	27%	25%	26%	31%	28%	35%
Some impact	21%	23%	19%	23%	19%	31%	23%	24%	20%	26%	23%	20%	16%
Might or might not be an	7%	13%		5%	7%	9%	4%	5%	8%	7%	3%	8%	10%
impact													
Not much of an impact	19%	14%	21%	21%	22%	15%	16%	23%	19%	23%	13%	18%	18%
No impact	26%	31%	28%	35%	14%	30%	39%	21%	28%	18%	30%	26%	21%
Impact Ratio	+3												



2.4.3 Why is there an impact

Q37 – Why do you say that? (Base - Asked of those who say there would be a big/some impact)

Those who feel there would be a "big impact" or "some impact" were asked for the primary reasons why (unaided, this list was not provided).

The biggest barrier is the smell, especially in the summer time (63%), significantly higher than all other mentions.

Keeping animals out of the garbage was the second barrier, at 39%.

Finding space to store the garbage for the extra week was third, at 35%.

"The stench would be absolutely sickening in the summer, and it would also be a big draw for flies and rats and we are overrun with them already - both of which could be a health issue. Instead of punishing those of us that recycle and try to keep garbage at a minimum try increasing the cost of the bag tags substantially - if the price is high enough they'll learn to recycle..."

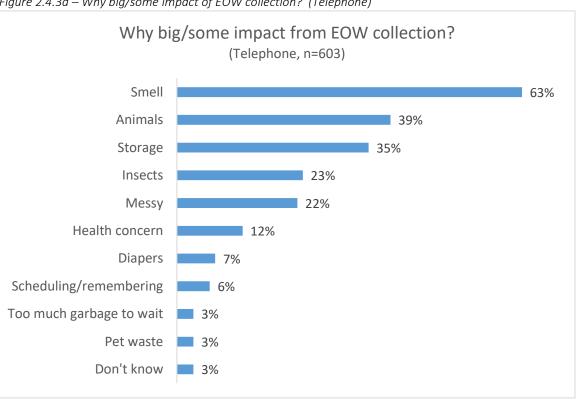


Figure 2.4.3a – Why big/some impact of EOW collection? (Telephone)

"We produce a full green bin and full garbage every week for a family of 4. Bi-weekly garbage would result in us having 2 bags of garbage bi-weekly. We do not have storage space for this extra bag. We already have a mice problem in our neighbourhood and we are concerned that it would increase if we are keeping bags of garbage for longer. Our garbage contains soiled diapers and holding them longer would greatly increase odour issues..."

"Where am I supposed to keep this garbage for an extra week. If I leave it outside animals will get it, if I leave it in my house it will smell and I will have flies in my house..."



2.5 Making A Choice

Q38 - If you had to choose between mandatory use of clear garbage bags, every-other-week garbage collection, or the use of both, which would you choose? (Full Sample)

Figure 2.5a – Choice between EOW collection and/or clear garbage bags by survey type

In the telephone survey, residents could not see the option for "neither", and our interviewers worked to force a choice from the other three. In the online survey, this was visible after the first day or two of fieldwork, and as a result was selected more often.

In the telephone survey, between the two, there was a slight preference for clear garbage bags over every-other-week, but not dramatically so. In the online survey, residents who made a choice decided on every-other-week collection over clear bags by a margin of about 2:1.

	Telephone (n=1,253)	Online (n=6,639)
Clear garbage bags	33%	17%
EOW garbage collection	27%	33%
Both clear garbage bags and EOW	21%	12%
garbage collection		
Neither **	19%	38%

Figure 2.5b – Choice between EOW collection and/or clear garbage bags by municipality

	Total	Fort	Grimsby	Lincoln	Niag.	NOTL	Pelham	Pt.	St.	Thor.	Wain-	Welland	West
	(n=1,253)	Erie			Falls			Colb.	Cath.		fleet.		Lincoln
Clear garbage bags	33%	26%	33%	31%	37%	36%	26%	40%	33%	31%	33%	36%	37%
EOW garbage collection	27%	31%	24%	33%	22%	22%	34%	21%	30%	42%	21%	20%	20%
Both clear garbage bags and	21%	25%	24%	20%	13%	30%	19%	24%	20%	16%	19%	25%	22%
EOW garbage collection													
Neither	19%	18%	19%	16%	28%	12%	21%	15%	17%	11%	27%	19%	21%

