

Saskatoon Talks Trash: Curbside

Community Workshops Feedback Summary



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April 20th, 2018

Community Workshop Feedback Summary

Two community workshop sessions were held on March 1, 2018 for the public and stakeholders to engage in more in-depth dialogue about redesigning the Curbside Collection Program. The afternoon session (1:00pm – 3:00pm) had 40 participants and the evening session (7:00pm – 9:00pm) had 26 participants.

Each two hour session included a brief presentation that described the context and the purpose of the overall project. Both sessions included a short question and answer period but the majority of time was dedicated to two engagement activities designed to encourage in-depth group discussion and generate ideas and feedback.

The summary of community workshop feedback reflects collected participant comment forms and comments transcribed on flip charts during the engagement process via table discussions at 2 community workshops. This summary includes feedback from the following areas:

Exercise 1: Exploring Options & Discussing Complementary Services

- Community 1
- Community 2
- Community 3

Exercise 1B: Collection Programs

- **Garbage**
- **Food & Yard Waste**
- **Recycling**
- **Other**

Exercise 2: Big Questions

- **Affordability**
- **Home Composters**
- **Illegal Dumping**
- **Blue Sky -**
- **Accessibility**
- **Bulky Item**

Blue Sky - What else could we do as a community to divert more waste from the landfill?

Education

- Education for children and adults.
 - Add discussions about waste diversion into curriculum. Education in schools will funnel back to parents.
- Increase social media and online awareness.
- Work towards a culture shift.
- Educate on landfill issues.
- Personalized outreach.

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Recycling

- Turn waste into other products.
- Promote curbside swaps.
- Promote the reuse of construction materials.
- Promote recycling businesses.

Organics (Food & Yard Waste)

- Make green bins mandatory.

Programs & Awareness

- Increase the accountability for waste on packagers and companies.
- Allow for flexible services (customization).
- Create incentives such as cash draws for participation.
- Train the underemployed to be recycling stewards.
- Develop corporate waste diversion programs.
- Incineration to generate heat and power.
- **Other**



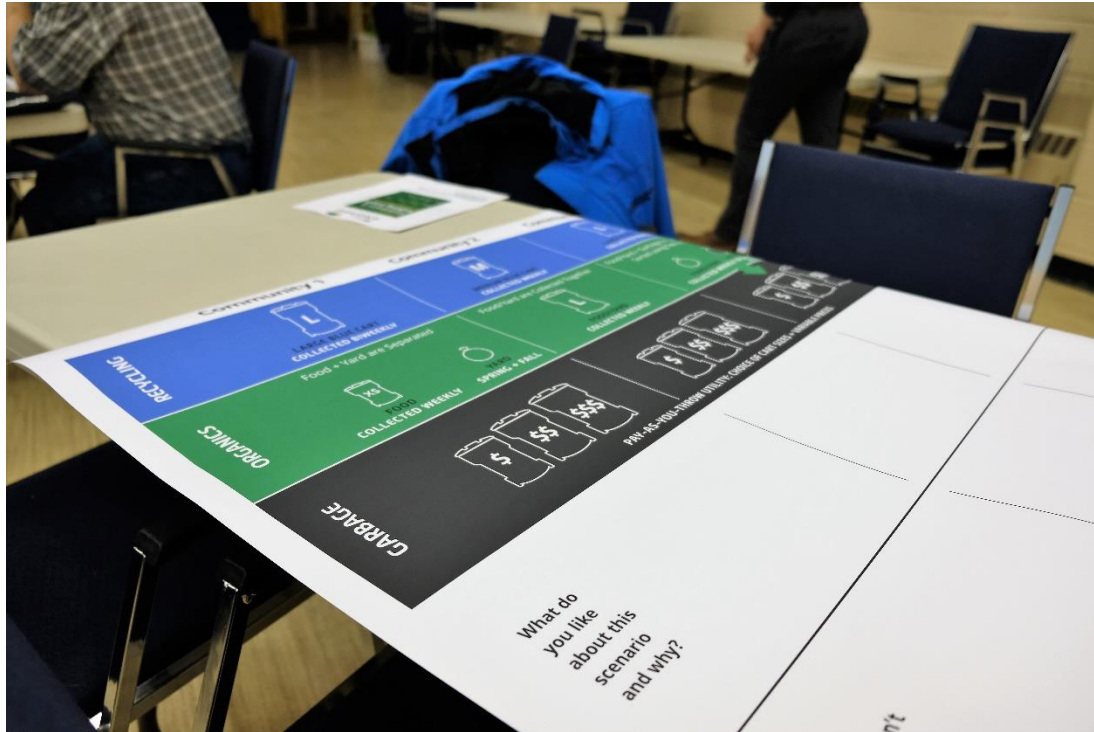
Exercise 1A: Exploring Options & Discussion of Complementary Services

Participants were asked to discuss 3 different scenarios for curbside collection programs. As a group they were asked to identify:

- What you like & why
- What you don't like & why

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Community 1

- Large Recycling, Biweekly
- XS Food Waste Cart Collected Weekly, Yard Waste Collections 2x/Spring and Fall
- Pay-as-you-throw (PAYT) Garbage with Variable Cart Sizes and Pricing

What do you like about this scenario?

Garbage

- Several participants liked the option to select their cart size (customization). One group noted that smaller bins have worked in other communities, but that a range of options should be provided.
- Some groups said that a pay-as-you-throw (PAYT) system would incentivize them to produce less garbage to save money. One respondent agrees that the City should charge by cart size.

Recycling

- Some participants said they liked the large bin size proposed for this scenario (consistent with current service).
- A few participants said the existing recycling system is working well.



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- With regard to pick-up frequency, several participants said that they liked the idea of recycling collection bi-weekly. One group said that recycling should be monthly for small households.
- One respondent appreciated the simplicity of the recycling system.

Organics (Food & Yard Waste)

- A few respondents said that they liked the idea of food waste being collected weekly and year-round. One participant also noted that this option would be great for those who already compost and that there should be lots of seasonal collection for those who don't compost. One group liked the efficiency of yard waste collection at peak times (spring/fall).
- It was suggested that pet waste should be an acceptable compostable item for collection.
- Some participants like placing food waste into carts.
- One point suggested a small cart option for households where less food waste is produced.

General Feedback

- Concerns about bin durability was noted. Some participants had concerns about the size of bins such as: small bins have lower handles, making them more difficult to maneuver; and that small bins still need bigger wheels.
- It was also noted that small waste bins would take up less room in their yard. Another note indicated that smaller bins are easier to maneuver.
- One respondent said that year-round collection is necessary.
- It was noted that fair fees for waste collection would reduce illegal dumping.
- It was also suggested that waste collection should provide local economic opportunities.

What don't you like about this scenario?

Garbage

- A few residents indicated that they do not like the change in fee structure for garbage collection (PAYT).
- A few respondents discussed the affordability of this scenario. It was noted that the system should be flexible to consider varying household sizes.
- One note indicated that there are concerns about the equity of payment for the PAYT program.
- Another note suggested that a small bin would need more frequent pick-ups and a large bin would require less frequent collection.
- Customization for varying households was appealing to participants.
- It was also suggested that the City should not ban plastic bags.

Recycling

- Some participants said recycling cart sizes should be variable. For example, one participant stated they would like an option for a smaller bin size and more frequent pick-up and another note mentioned the blue bin is not big enough and that collection should be weekly.
- Several participants felt that styrofoam products should be recyclable and that more clarity is needed on recyclable items.

Organics (Food & Yard Waste)

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- It was noted that the current subscription organics program is insufficient and another point stated the need for clarity on composting bags and the frequency of collection. There were also comments that indicated a dislike of dealing with separate bags.
- Some participants said they do not want to separate food and yard waste as it is inconvenient or confusing.
- Some participants said that yard waste pickup should be more frequent or year-round. For example, some said that seasonal collection of yard waste is not feasible for people with large yards and people who garden.
- There were opposing views on bin size. Some participants said that a small bin would be enough for food waste, while others said the bins should be larger to be more efficient and reduce collection costs. One participant said they do not produce enough food waste to justify having a green bin.
- A few participants said that there are too many bins in this scenario. It was also noted that rentals (e.g., basement suites) would result in too many bins. On the same topic of bins, one respondent said that small bin sizes might prompt illegal dumping.
- It was also suggested that the City should consider a Loose Leaf Collection system like Oakville.

General Feedback

- Concerns were expressed regarding the swapping out of existing bins.
- One comment noted how the City should employ people versus using machines. Another note questioned if big trucks are necessary. Another note questioned how the scenario would account for people who travel for extended periods of time.
- A concern was also raised about paying for a service that they may not use and about how well people will separate their garbage.

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Community 2

- Medium Recycling Cart, Collected Weekly
- Large Co-mingled Organics Cart, Collected Weekly
- PAYT Garbage with Variable Cart Sizes and Pricing

What do you like about this scenario?

Garbage

- Some participants like the PAYT system and noted that customization and flexibility are appreciated. However, one participant said that the City should charge by frequency of collection and not cart size.

Recycling

- One group liked the proposed weekly pickup of recycling as their current bin fills quickly and another group stated that a medium recycling bin is an appropriate size.

Organics (Food & Yard Waste)

- Multiple participants like the organics collection method suggested in this scenario. They find it easy, straight forward, and like that there is no need for bags. Some participants specifically like that food and yard waste are combined.
- Some participants like the idea of having organics collected on a weekly basis. One participant said that someone they knew in St. Albert appreciated weekly collection.
- Some participants like the large organic cart size proposed in this scenario. Some participants want medium bins, while others want large bins. They suggested that providing a variety of options would incentivize use.
- It was asked whether users could get a reduction in garbage utility costs if they don't require organics collection.
- One comment stated that organics act as a good input for biogas generation.

General Feedback

- Some participants said that this scenario seemed to be the simplest. One respondent remarked that they like this option, apart from the proposed recycling scenario.
- A few participants said that this scenario provides a good separation of waste streams.
- It was suggested that E-mail alerts and time-specific information on collection is important.
- One group wants the City to ensure collections facilities create local economic opportunities.

What don't you like about this scenario?

Garbage

- Some participants suggested an adjustment window to allow residents to change their cart size if needed.



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- Some participants noted that a PAYT utility may cause equity issues for large families and renters. A few residents said that the PAYT program may encourage illegal dumping.
- One group noted that there is an environmental cost associated with changing resident's current garbage bins, another questioned whether allowing for multiple bin sizes would increase the City's operational costs.
- A few participants said that a PAYT program should also account for collection frequency. One participant said that having one large bin would allow for residents to decide how often their garbage should be collected.
- Questions were also raised about what happens when a person moves to a new home.

Recycling

- Multiple participants said that weekly recycling collection is too frequent and may be too expensive. Participants said that recycling can wait longer between pick-ups (potentially longer than bi-weekly collection) because it does not create an odor. One group said they would prefer to have a large recycling bin to reduce operational costs.
- A few participants don't like the medium size recycling bin in this scenario. One group said that a medium bin wouldn't allow residents to fit large cardboard.
- It was noted that recycling should be made more lucrative for value-added processing.
- It was also suggested that there should be additional blue bin collection during the holidays.
- Some respondents do not like that Styrofoam is not currently collected.

Organics (Food & Yard Waste)

- Several participants said a large green bin would be too big. One group said that curbside collection may be difficult if residents cannot find the space for their bins. A few participants are concerned about managing or storing multiple bins.
- Some participants believe that combining food and yard waste may increase operational costs due to sorting at compost depots. One group is concerned about how well residents will sort their organics. Another noted that green bins lack airflow, causing bad odors. The weight of green bins was also raised as a concern.
- Some participants want the option to choose the size of their green bin. One participant said that home composters should be able to select smaller bins. Another noted that home composters should pay less for collection. One participant said that weekly green bin collection would be efficient if coordinated with current collection schedules.
- Concerns were mentioned about neighbours' leaves falling into their yards.
- It was suggested that changes to the green bin from seasonal collection to year-round collection should be paired with education and that the frequency should account for weather.

General Feedback

- A few participants had concerns with back lane collection being inconsistent. One participant said that back lanes should be fixed.
- One respondent also noted that City's response time to requests for bin replacement is not quick enough.
- One participant commented that the City should not ban plastic bags.

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Community 3

- Large Recycling Cart, Collected Biweekly
- Organics (Food and Yard) in Green Bags, into same Large Garbage Container with bagged (black or other non-green) garbage
- PAYT Garbage with Variable Cart Sizes and Pricing

What do you like about this scenario?

Garbage

- Some participants like the proposed PAYT program because of its flexibility, customization and potential for cost savings.
- Another note suggested that residents should be able to determine collection frequency to help lower costs.

Recycling

- Although participants mostly felt that the proposed recycling program in this scenario was adequate, one participant suggested that recycling should follow a variable PAYT program based on cart size or frequency

Organics (Food & Yard Waste)

- When discussing bags, one group asked if they would be able to lift their compost bags. They asked for an option to have several small compost bags rather than one big one. Another note stated that they like the compost bags as they are a home composter and would only need a small bin.

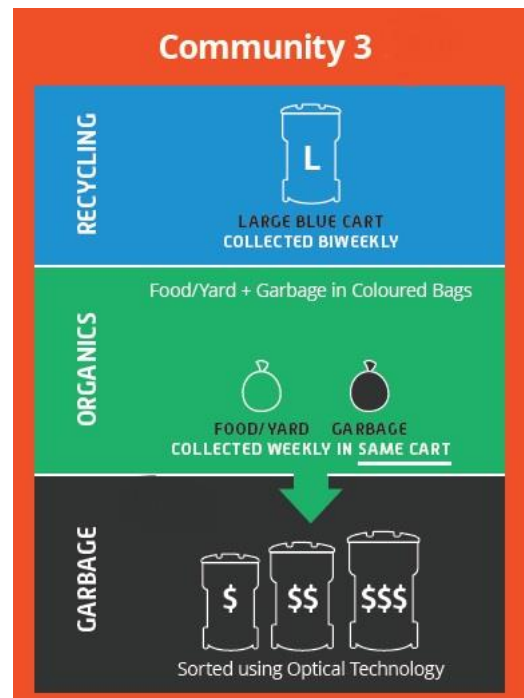
General Feedback

- Multiple participants said they liked that this scenario only required two bins. One respondent also noted that it makes sense. A few participants stated that having fewer carts is appealing.
- It was noted that local processing facilities should create economic opportunities.
- One participant had a concern with the proposed sorting technology. Another asked if this scenario is realistic.

What don't you like about this scenario?

Garbage

- A few participants said the PAYT program should consider varying household sizes.
- Some participants said that variable pricing based on frequency should also be considered. One group said that having one large bin would allow residents to determine the frequency of their garbage collection.



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- Another group suggested that a PAYT program based on cart size may not lead to increased waste diversion and that a sticker system may be better (where residents buy stickers to place on carts when collection is desired).

Recycling

- A few participants said that they would like the option to have a smaller recycling bin. Large bins can be difficult to handle, be too heavy, or take up too much room.
- One group noted they did not like that Styrofoam cannot be recycled.

Organics (Food & Yard Waste)

- Several participants don't want to use plastic bags for their organics. Some participants noted that plastic bags are not environmentally friendly. Other participants do not want to pay for organics bags.
- A few participants are concerned about the contamination and tearing of compost bags.
- Some participants noted operational costs may increase in relation to the two-bag system. One group noted the additional cost of diversion. Another participant noted the cost of manufacturing two different bags. One comment was made regarding the inability of garbage trucks to compact bagged waste.
- Multiple participants expressed concern about the ability of residents to properly sort their organic waste. One group said that sorting works well for food waste but would not work well for the sorting of yard waste.
- One concern noted skepticism about whether compostable bags are truly compostable.

General Feedback

- A few participants said that this is the most complicated option and would present the greatest potential for non-compliance and the greatest need for education.
- It was suggested that this option may cost the City more if they are "good" about diversion.
- One group said that the City should not ban plastic bags. Another note suggested using white garbage bags instead of coloured bags.
- It was also asked if different types of waste could be collected on the same day of alternating weeks.

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Exercise 1B: Complementary Programs

Based on the discussion above, participants were asked to discuss extra services that might be desired. Four areas were provided for participants to consider:

- Garbage
- Food & Yard Waste
- Recycling
- Other

Garbage

A) What would make this kind of service most useful to you?

Extra Collections – Service comes to you

Bulky Items

- Bulky item collection for residents who don't have a vehicle to take their waste to the landfill or depots (i.e. mattresses, couches, fridge, electronics, etc.)

Frequency

- Increased pick-up frequencies around holidays (especially Christmas and New Year).
- Increased pick-up frequencies for yard waste in spring and fall seasons.

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- Customizable pick-up frequencies based on household rather than community pay-per-use responsive services. Allow for scheduled collection every four weeks or by booking ahead.
- Simple and consistent collection schedule.
- Only offer bi-weekly collection.

Program & Awareness

- Some participants suggested the prioritization of curbside swaps or other reuse options instead of throwing it away.
- Economic opportunities with extra collections.
- Allow private companies to collect excess garbage.

Drop-off – you go access the service

- Provide options for renovation material and furniture.
- Preferably a local neighbourhood depot, staffed like household hazardous waste (HHW) drop-offs days.
- Many like the landfill drop off option.
 - Can consider availability of hours of operation and after-hours access.
 - Improve landfill road.
 - Do not need a transfer station.
- Concerned (generally) about non-sorting in roll-off bins (commercial).
- Some contractors put everything into landfill even if it is organic.

B) Would you be willing to pay for this service if you needed it? Why or why not?

Extra Collections – Service comes to you

- Provide families with one free pick-up and charge for additional collections.
- Some participants noted they would be willing to pay for this service if it saved time, was reasonable and if there was a private option too.
- It was noted that this service should have a fee for extra garbage.
- There should be ways for people to have more control over their costs.
- Provide an option for citizens to get reimbursed for private companies to remove waste instead of using city trucks.
- Consider affordability for low income families and families with young children (diapers).
- One respondent suggested that each household has 1 free pick-up and then any extra collections are charged.

Drop-off – you go access the service

- Don't keep raising the prices at the landfill, because it might increase illegal dumping.
- Some participants currently drop off extra waste at the landfill.

Food & Yard Waste

A) What would make this kind of service most useful to you?

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Extra Collections – Service comes to you

Frequency

- Increase pick-up frequencies during spring and fall season and lengthen the season's time-frame. Allow for additional leaf collection.
- Allow for flexible frequency (weekly in the summer, bi-weekly in the winter).
- Customize pick up frequency with collection within four weeks, by booking ahead, or calling as needed.
- Coordinate pick-up frequency with other collections (e.g., garbage and recycling)

Programs & Awareness

- Implement a program to collect large yard waste (e.g. removing a tree).
- Increase leaf collection or implement a leaf collection system similar to the Town of Oakville.
- Increase training on backyard composting.
- Maintain compost depots for tree trimming, large organics, stumps, etc.

General Feedback

- Prepare for illegal dumping of organic waste.
- Large bins are required for some residents.
- Consider seniors' abilities to manage an organics program.

Drop-off – you go access the service

Accessibility

- Multiple participants said this type of program would be difficult for seniors and those without cars.
- Multiple participants want extended hours and months of operations for drop-off composting. Other suggestions included better information on depot hours and only having one compost depot open during the winter months.
- Maintain existing compost depots. Build more depots and place them in convenient locations.
- Build awareness of depots.

Programs & Awareness

- Create partnerships with community gardens through match-making of home composters.
- Promote diversion amongst contractors.
- Promote plastic bag policies at depots.

General Feedback

- Some participants already use this service.
- Dutch Elm is not currently allowed in city organics processing and one group noted that this should continue.

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B) Would you be willing to pay for this service if you needed it? Why or why not?

Extra Collections – Service comes to you

- Some participants would pay for this service. However, it should be affordable (e.g. less than \$100.00)
- Some participants already use this type of service.
- Some participants like the idea of home collection.
- One participant is concerned about extra collection costs.

Drop-off – you go access the service

- Make the entrance price reasonable.
- Some participants said that depot access free for users and not a fee on property takes. Comments indicated that residents shouldn't have to pay for diversion and that the city makes a profit on compost which could offset the cost.
- The use of this service depend on the structure of the City-wide organics program.

Recycling

A) What would make this kind of service most useful to you?

Extra Collections – Service comes to you

Frequency

- Increase pick-up frequencies during the holidays.
- Customize pick up frequency with collection within 4 weeks or by booking ahead.

Programs & Awareness

- Provide paper shredding facilities.
- Allow more items to be recycled.

General Feedback

- This service isn't needed for some.
- This service would be useful for seniors and those without cars.

Drop-off – you go access the service

Accessibility

- Keep existing depots open. Depots are still required for bulky items such as large cardboard
- Keep depots well maintained.
- Make depot locations more convenient.
- Make depots more affordable or free.

Programs & Awareness

- Allow for Styrofoam to be recycled.

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- Add bulky item to recycling (i.e. items that are too big for carts, but does not include construction waste some examples mattresses, chairs, etc.).
- Keep glass collection separate from curbside collection.

B) Would you be willing to pay for this service if you needed it? Why or why not?

Extra Collections – Service comes to you

- Service should be affordable.
- Create a PAYT for recycling.
- Allowing for additional services may contribute to better recycling sorting.

Drop-off – you go access the service

- Make the Rural Municipalities and other users chip in for the cost.
- Allow for confidential shredding.
- Leave payment for Sarcen in the mill rate.

Other

A) What would make this kind of service most useful to you?

Extra Collections – Service comes to you

Frequency

- Allow for one-time collections for renovations.
- Household hazardous waste collection as an opt-in, monthly program.

Programs & Awareness

- Bulky-item collection program.
- Household hazardous waste collection program.
- Textile collection program.
- Renovation and construction material pick-up.

General Feedback

- The operational costs of this service would be too expensive.
- Residents should schedule their own pick-ups with private companies.
- Some participants said that household hazardous waste shouldn't be added to curbside collection as it too dangerous.

Drop-off – you go access the service

Accessibility

- Build household hazardous waste depots and put them in convenient locations with supervision.
- Extend depot hours.
- Make depots more affordable and available as an overall system.

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- Low income residents or people without cars may not have transportation options to use the depots.

Programs

- Multiple participants said household hazardous waste drop-off days work well. Add more days with convenient locations.
- E-recycling drop-off.
- Textile drop-off.
- Education and awareness on programs.
- Lumber and building material drop-off.

B) Would you be willing to pay for this service if you needed it? Why or why not?

Extra Collections – Service comes to you

- Some residents would pay for this service as it would save time and money.
- Allow for lightbulb disposal.
- The province should pay for this service.
- Some participants would not want to pay for this service as it might be too expensive to operate or their needs are too infrequent.



Drop-off – you go access the service

- Participants would pay for it if it is convenient.
- Some participants said they would not pay for this.
- Incorporate payment through taxes as it is an environmental imperative.
- Depots should be supervised with staff present.
- Allow community groups to collect waste through a fundraiser.

Exercise 2: Exploring Big Questions

Participants were provided with six topics and questions and were invited to select which topic to focus on, they were also invited to propose their own topic:

- Affordability with utility model
- Home Composters
- Illegal Dumping
- Accessibility
- Bulky Item Collection
- Blue Sky on Diversion
- Other

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Below is a summary of comments received from the breakout sessions at both workshops.

Affordability with utility model: In a utility model, generating less waste will lead to lower fees, but we know that cost may be a barrier to some residents. What might we consider to assist with affordability/equity?

Affordability

- Several participants said that PAYT would allow them to control their bills.
- Multiple participants expressed concern about the cost of PAYT programs for families, low-income families, seniors and students.
- Some residents are worried that PAYT may encourage illegal dumping.
- Clarify whether PAYT is based on size of cart, not frequency.
- Consider charging based on collection frequency rather than cart size.
- Ensure landlords don't raise rents to cover the costs of a PAYT system.
- Some participants are concerned that property taxes will still increase despite the utility model.
- Allow diapers to be composted to alleviate pressure on garbage bins.

General Feedback

- Can't expect improvement without price increase.
- Clarify what items are still considered as garbage and not recycling or organics.
- Provide education on PAYT.
- Take a phased approach to bringing in a PAYT program, and learn from other municipalities.

Home Composters: How might we make an organics program attractive to home composters?

City Services

- Offer free compost pick-up at the depots.
- Expand list of compostable items and provide composting services for items backyard composters cannot handle (e.g. meat and bones).

Programs & Awareness

- Offer discounts (or opt-out) of City green cart program for home composters.
- Increasing incentives to purchase backyard compost bins.
- Create an office composting program.
- Allow chickens on private residences to assist with home composting.
- Establish more community gardens.
- Allow for variable green bin cart size and frequency of pickup.

General Feedback

- Reduce nuisances and vermin that backyard composters often produce.
- Bokashi system is good for home composters but has some limitations (e.g. no leaves).
- Acknowledge successful home composters.

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- Acknowledge the value of compost.

Illegal Dumping: What specifically are you concerned about? How might we address the risk of dumping?

Concerns & Ideas

- Multiple participants suggested the City focus on prevention and solutions to illegal dumping, including:
 - Clarify a method for reporting incidents.
 - Clarify penalties for illegal dumping, and increase fines.
 - Develop a video monitoring system to catch illegal dumpers.
 - Discourage illegal dumping by providing additional pick-ups, lowering landfill fees to discourage illegal dumping, and by carefully set cart prices.
 - Provide assistance to low-income families to discourage illegal dumping.
 - Build more depots.
 - Allow for residents to pay for their garbage utility through a Tax Instalment Payment Plan Service.
- While some participants were very concerned that PAYT will cause more illegal dumping, others noted that this problem is not big enough not to proceed with waste diversion or PAYT.

Current Issues

- Dumping of waste in back lanes, other dumpsters (multi-unit/construction), and outside of the City.
- Contamination of recycling.
- Bulky items are a large culprit.

Accessibility: How might we make the collection system more accessible for residents of varying ages & abilities?

Affordability

- Consider that many seniors are on fixed incomes.
- Develop programs for those who do not have cars to drive to depots.
- Consider ways to encourage neighbours to share cart space when needed.

Accessibility

- Create an online registry for those who need assistance. Encourage programs for neighbours to support each other.
- Consider options for residents with disabilities or mobility challenges (e.g. special collections).
- Allow for smaller carts for seniors.
- Consider diverse needs in services (customization).
- Teach collection crews to be more accommodating.
- Provide complementary services to help residents put out their carts (e.g., snow clearance, lawn cutting).

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Programs & Awareness

- Promote programs in multiple languages and formats.
- Promote consultation initiatives such as this.
- Consider that not all residents have computers and provide alternative awareness mechanisms.

Space Efficiency

- Back alley pick-up is difficult for some residents.
- Multiple bins may be difficult to store.
- Households that are too close together limit accessibility.
- Households with on-street parking have difficulty finding space for curbside collection.

General Comments

- Inclement weather is an obstacle for some residents.
- Create employment opportunities through waste collection.

Bulky Item Collection: How might we design this service to meet the needs of residents?

Programs & Awareness

- Promote curbside swaps, online resale (e.g. Kijiji), charitable donations, and reuse of construction materials such as metal.
- Develop a bulky item curbside collection program that is either free or pay-per use. This could be scheduled through online registration.
- Provide assistance to help residents get large items to depots.
- Encourage neighbourhood clean-up days.
- Install bulky item collection bins for new developments.

Cleanliness

- Bed bugs and lice in bulky items is a concern for some residents.

Blue Sky - What else could we do as a community to divert more waste from the landfill?

Education

- Education for children and adults.
 - Add discussions about waste diversion into curriculum. Education in schools will funnel back to parents.
- Increase social media and online awareness.
- Work towards a culture shift.
- Educate on landfill issues.
- Personalized outreach.

Recycling

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- Turn waste into other products.
- Promote curbside swaps.
- Promote the reuse of construction materials.
- Promote recycling businesses.

Organics (Food & Yard Waste)

- Make green bins mandatory.

Programs & Awareness

- Increase the accountability for waste on packagers and companies.
- Allow for flexible services (customization).
- Create incentives such as cash draws for participation.
- Train the underemployed to be recycling stewards.
- Develop corporate waste diversion programs.
- Incineration to generate heat and power.

Other

Education

- General education on waste programs and diversion.
- Education in schools on waste diversion with competitions and rewards.
- Media and online education.
- Political pressure to ensure that programs are implemented.
- Cause a culture change (mindset shift).

Bagging

- Ban plastic bags.
- Provide compostable bags, not plastic bags, for compost program.
- Promote reusable bags.

Organics (Food & Yard Waste)

- Provide flexible hours at compost depots.
- Disallow bones in backyard composting.

General Feedback

- Provide efficiency statistics of community scenarios.
- Consider incineration for power generation.
- Reduce commercial packaging and waste production.