



City of
Kelowna

Recycle BC Collection Update

June 13, 2022

Overview

- ▶ Background
- ▶ Technical Considerations
- ▶ Other Considerations
- ▶ Financial Considerations
- ▶ Future Work

Background

- ▶ Recycle BC is Stewardship Group for residential paper and printed packaging
- ▶ City has a contract to collect recycling for them and City receives a financial incentive
- ▶ Contract requires a commitment from the City to
 - ▶ collect for Recycle BC for an additional 5-years; or
 - ▶ return collection services to Recycle BC
- ▶ Decision due July 1, 2022
- ▶ Review suggests that having Recycle BC perform collection is best value to citizens

Technical Considerations

- ▶ This decision is about who will collect the recycling
- ▶ Does not impact multi family recycling
 - ▶ Recycle BC works directly with interested haulers for multi family collection
- ▶ Does not impact expanded organics diversion
 - ▶ Regional waste diversion initiative

Technical Considerations

- ▶ If Recycle BC collects recycling, they would design program and collection contracts
- ▶ City would request an extension to Recycle BC contract to April 2026
- ▶ Aligns with expiration of existing curbside contract
- ▶ Recycle BC is open to discuss the extension should the City officially request they perform collection

Technical Considerations Contamination Levels

- ▶ Contamination rates
 - ▶ Approximately 13% total contamination
 - ▶ Approximately 7.4% not accepted materials
 - ▶ Requirement in Recycle BC contract = 3%
- ▶ Volumes recovered

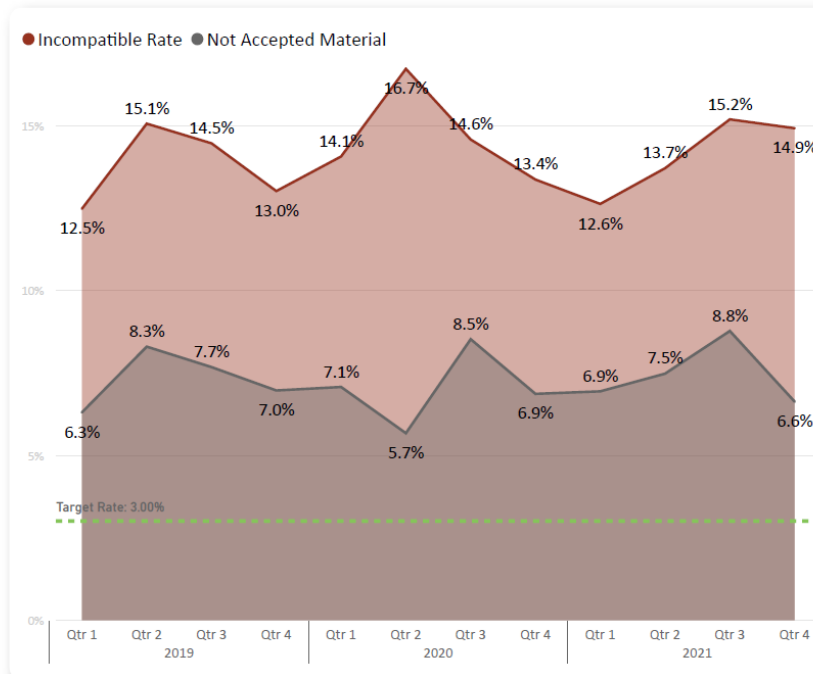
Program	Contamination from not accepted materials	Net recycling household
Kelowna	7.4%	125 kg
All Single Stream	8.8%	125 kg
All Multi Stream	4.1%	139 kg

Kelowna Contamination Rate



Overall Performance - Curbside

City of Kelowna



Number of Audits Performed:



All Time %

13.9 %
Incompatible Rate

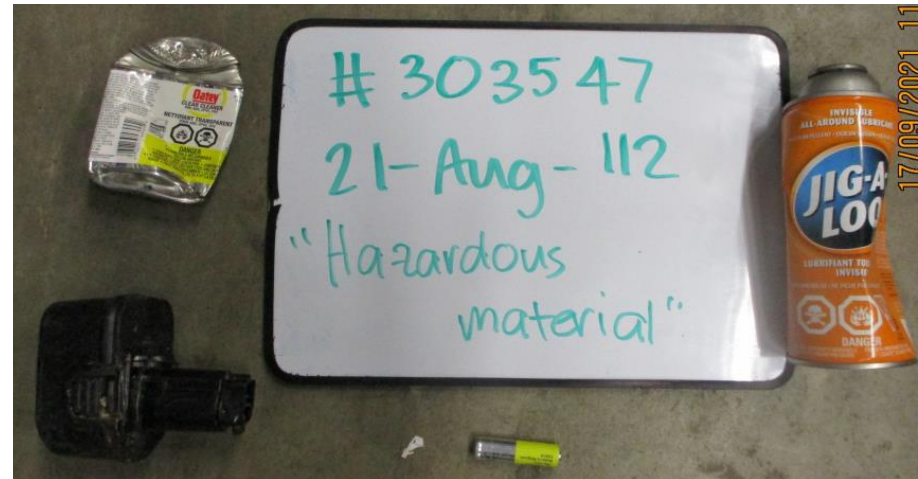
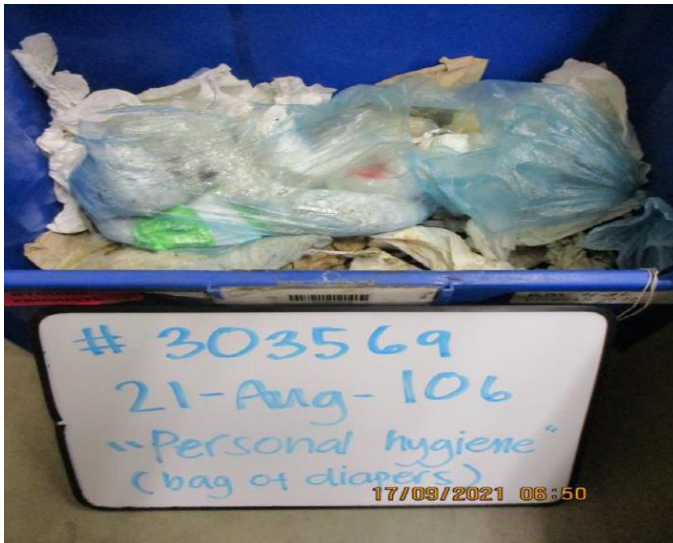
7.4 %
Not-Accepted Material

14.9 %
Last Quarter

6.6 %
Last Quarter



Examples of contamination



Technical Considerations

What could the program look like

- ▶ No decrease in service – may add glass to curbside
- ▶ Includes current blue bin materials and every 2 week pick up as a minimum
- ▶ Single stream or multi stream
 - ▶ Carts
 - ▶ Bins
 - ▶ Bags
- ▶ Change in pickup dates possible
- ▶ Recycle pick up may not be the same days as garbage pick ups

Kelowna Single Stream Sorting Guide

GARBAGE: (Weekly collection)

Include:

- Regular garbage
- Kitchen waste
- Containers with food
- Diapers
- Animal waste, loose grit/sawdust (must be bagged)
- Tissue, napkins, paper towel
- Styrofoam chips only



RECYCLABLES: (Bi-weekly collection)

Include:

- Newspapers and flyers
- Paper including envelopes, paper bags, magazines
- Cardboard
- Boxboard, including cereal boxes, etc
- Plastic containers (empty and rinsed)
- Paper cups and lids
- Milk, juice and soup containers
- Aerosol cans and lids
- Aluminum foil wrap and containers
- Tin and aluminum cans



YARD/GARDEN WASTE: (Bi-weekly collection, March – December)

Include:

- Grass clippings
- Leaves
- Weeds
- Plant trimmings
- Pine needles and cones
- Pumpkins
- Fruit droppings
- Prunings and branches up to 5cm (2 in) in circumference AND less than 1m (3 ft) long




Yard waste
must fit in cart
with lid closed.

Multi Stream Pick up NORD Sorting Guide

PAPER

PUT INTO YELLOW BAG OR ONE BLUE BOX


Recycle at curbside or depot
Clean and dry paper only
Cut excess cardboard to 76cm x 76cm and stack beside bag or box



CONTAINERS

PUT INTO OTHER BLUE BOX


Recycle at curbside or depot
Empty and rinse containers



GLASS

PUT INTO GREY BOX


Recycle at curbside or depot
Empty and rinse glass bottles and jars




DROP-OFF ONLY


TAKE TO RECYCLING DEPOT

Not accepted in your yellow bag, blue boxes or grey box







Newspapers, inserts, flyers




Magazines, catalogues, phone books




Boxboard boxes




Modded paper




Household paper




Envelopes



Paper bags




Shredded paper (contain in paper bag or box first)




Cardboard boxes

Greeting cards
Paper gift wrap
Paper gift bags


Paper carry-out beverage trays
Covers from paper towel and toilet paper




Plastic bottles, jugs and jugs




Plastic trays and clamshells




Plastic garden pots and seedling trays




Caps, tops, lids and pumps




Plastic or paper take-out cups, bowls and lids




Carburetors for soup, dairy, etc.



Metal cans




Aerosol cans (empty)




Foil wrap and take out containers

Plastic packaging for toys, batteries etc.
Separate plastic from paper backing
Spiral wound cans and lids for frozen juice concentrate, chips, etc.

Plastic pails less than 25L for laundry detergent, cat litter, etc.
Plastic tubs for yogurt, margarine, etc.



Glass bottles - clear and coloured



Glass jars - clear and coloured

Put all lids in blue box.

NOT ACCEPTED
Do NOT place into Grey Box

- Drinking glasses, dishes, cookware
- Window glass, mirrors
- Ceramic products
- Light bulbs or light fixtures

Want to recycle something not included here?


Search Recycle BC's Waste Wizard or download a full material list at RecycleBC.ca. To recycle items that are not packaging or paper, visit the Recycling Council of BC (RCBC) website at RCBC.ca.

Unused Medication


Empty medication containers can be recycled with Recycle BC, but unused or expired medications can be safely disposed by returning them to community pharmacies. For more information or to find the nearest pharmacy please visit www.healthsteward.ca.

FOAM PACKAGING


(return to depot)



Foam meat trays (remove absorbent pad)




Foam take-out containers and cups




Foam cushion packaging used to protect electronics etc.

Blue or pink foam insulation, packing chips and peanuts
Squishy or flexible foam, foam noodles


NOT ACCEPTED
Do NOT place into Yellow Bag or Blue Box




Hard and soft cover books



Plastic bags and overwrap



Clothing and textiles




Food, yard waste and wood

- Non-paper gift wrap, foil wrap, cards or paper with glitter
- Rubber bands, ribbons, bows
- Packed envelopes
- Bags and boxes with foil liners
- Paper towels, napkins and tissues
- Foil or plastic lined paper bags


NO HAZARDOUS MATERIALS

Exclude batteries; medical sharps; bleach or aerosol containers with any contents remaining; containers with the words COMBUSTIBLE, FLAMMABLE or VERY FLAMMABLE on them (except cosmetic and beauty product containers); compressed gas cylinders, for example used propane cylinders; containers for paint, motor oil, vehicle lubricants, or antifreeze; or containers for pesticides with the words DANGER, WARNING, or POISON, and precautionary octagon or diamond symbols with skull and cross bones.


NOT ACCEPTED
Do NOT place into Blue Box




Plastic bags and overwrap




Hazardous waste




Glass



Electronics and appliances



Toys and games




Hangers, pots, pans and other scrap metal


- Foam packaging
- Chip or foil bags, candy wrappers
- Stand-up pouches
- Packaging labeled biodegradable or compostable
- Wiring, metal cords, hardware
- Clothing, textiles and shoes
- Food and yard waste

PLASTIC BAGS AND OVERWRAP

(return to depot)



Plastic bags



Outer bags and product wraps

Bags for groceries, produce, dry bulk foods, frozen vegetables, water softener, salt, garden products, newspapers, etc.

Overwrap for diapers, feminine hygiene products, paper towels, soft drink karts


Characteristics of Plastic Bags and Overwrap vs. Other Flexible Plastic Packaging

PLASTIC BAGS AND OVERWRAP	OTHER FLEXIBLE PLASTIC PACKAGING
Can Poke Your Thumb Through it	Can't Poke Your Thumb Through it
Not Crinkly	Crinkly
Single Material	Doesn't Stretch
	Foil Lining


For more information, visit RecycleBC.ca/FlexiblePackaging

OTHER FLEXIBLE PLASTIC PACKAGING


(return to depot)




Crinkly wrappers and bags




Flexible packaging with plastic seal



Zipper lock and stand-up pouches



Woven plastic bags



Non-food protective packaging

- Plastic scumme tubes, plastic-lined paper, paper into plastic, plastic strapping
- 6-pack trays, biodegradable plastic, vinyl

Source: Example Guide – RecycleBC/RDNO

Kelowna Single Stream Cart Pick up

Be Cart Smart



To reduce conflicts with wildlife please **DO NOT** place your carts out before your collection day.

For missed collection please call E360s at 250-868-3211.

- Place your carts properly for collection.
- Carts improperly placed may not be emptied. Keep away from fences, sheds and houses.

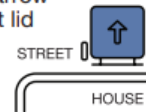
Park it

On the street, with the wheels against the curb, or on the shoulder (if no curb).



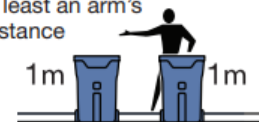
Point it

Point the arrow on the cart lid towards the road.



Space it

Leave at least an arm's length distance on all sides.

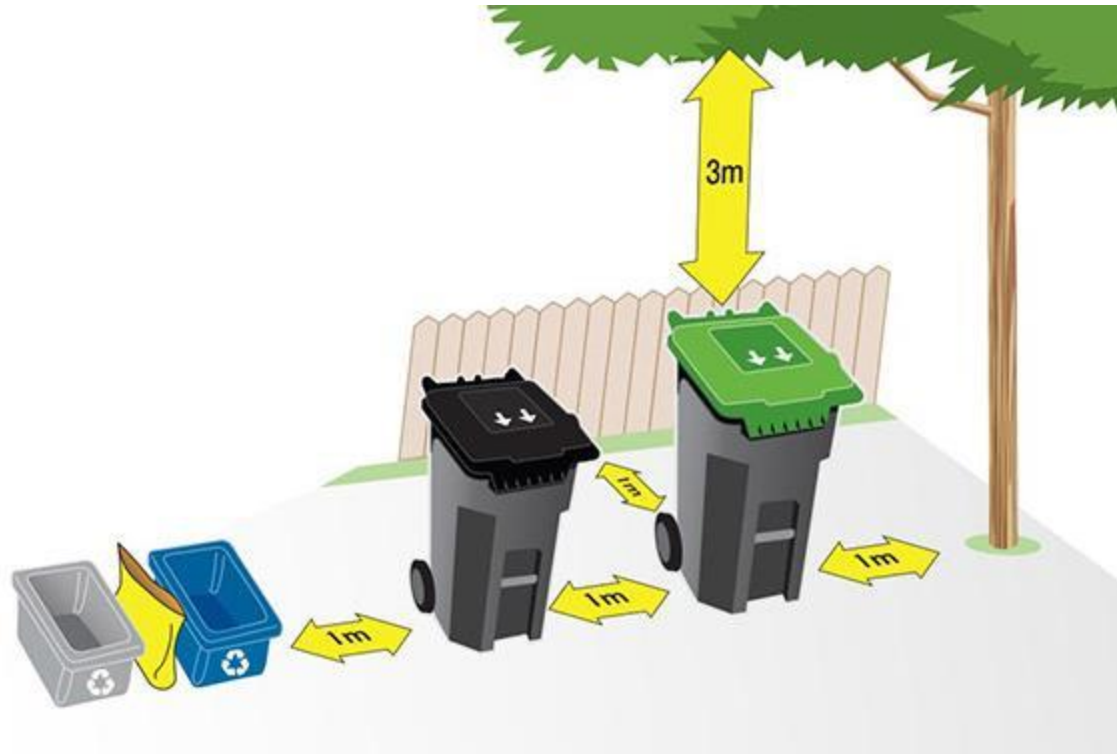


How to Use Your Carts



- All materials must fit within the carts completely with lids closed.
- Do not block bicycle lanes or sidewalks. Carts must not be an obstacle for cyclists or pedestrians.
- **Extra garbage?** Up to two (2) additional garbage bags that display a 'tag a bag' sticker and are not inside a garbage can will be collected. (Want to buy a tag a bag? Visit page 3 for info on locations)

Multi Stream Pick Up by Recycle BC -City of Vancouver



Source: City of Vancouver – Waste Collection Guide

Technical Considerations

- ▶ Survey of residents shows
 - ▶ An overall satisfaction with current recycling collection
 - ▶ Strong willingness to spend time sorting recycling
 - ▶ Strong willingness to use a multi stream process
- ▶ Diminishing benefits to adding recycling beyond Federal and Provincial Programs
- ▶ Focus on waste diversion

Technical Considerations

- ▶ Discussions with other municipalities that have returned services to Recycle BC have been positive
- ▶ Convenience of single stream
- ▶ Single and multi stream produce similar levels of recovery with less contamination in multi stream
- ▶ Kelowna could be the first single stream to convert multi stream
- ▶ Expect short term education and complaints as part of any system transition

Other Considerations

- ▶ Extended Producer Responsibility Program
 - ▶ Eight current categories including subsets
 - ▶ Five new categories added in 2022
 - ▶ To be operational by 2026
 - ▶ Funded by deposit or fee system
- ▶ Single Use Plastics Ban
- ▶ Continued expectation to see Federal and Provincial waste elimination
- ▶ Work with RDCO under SWMP to evaluate expanded depot or recycling programs
- ▶ Benefit of additional staff capacity

BC Current EPR List

- ▶ Beverage containers
- ▶ Lead-acid batteries
- ▶ Packaging and paper products (RECYCLE BC)
- ▶ Paints, solvents, pesticides and gasoline
- ▶ Pharmaceuticals
- ▶ Tires
- ▶ Used oil and antifreeze
- ▶ Electronics (10 sub categories)

Provincial EPR Expansion

- ▶ Hybrid/EV and other batteries
- ▶ Mattresses and foundations
- ▶ Compressed canisters (examples - single-use camping fuel and fire extinguishers)
- ▶ Home Medical sharps
- ▶ Emerging electronics and more moderately hazardous products

Financial Review

- ▶ Contractual obligation to have less than 3% contamination
- ▶ Potential for surcharges to the City for not meeting contamination levels
- ▶ Maximum of \$120,000 in first year
- ▶ Increases to \$480,000 in fourth year
- ▶ Unlikely to see maximum surcharges
- ▶ Lowers payments resulting in need to increase taxation to offset funding

Financial Review

- ▶ Recycle BC pays the City an Incentive to collect the recycling on their behalf
- ▶ \$35.40/HH increasing to \$37.40/HH July 1
- ▶ Covers recycling collection, bins, some overhead and education
- ▶ City currently has a slight positive cash flow
- ▶ Assuming no surcharges are applied, recycling costs increase by 2% result in the City subsidizing Provincially mandated programs

Financial Review

- ▶ Assuming no surcharges are applied, recycling costs increase by 2% result in the City subsidizing Provincially mandated programs
- ▶ Annual increases in costs average more than 2% per year
- ▶ Increases in costs or surcharges are directly tied to the City's financial liability
- ▶ This financial risk is mitigated if Recycle BC collects recycling

Future Work

- ▶ Review of recycling expansion
- ▶ Review of depot accessibility
- ▶ SWMP effectiveness review
- ▶ Building deconstruction
- ▶ Expanded organics diversion



Questions?

For more information, visit kelowna.ca.