

Proposed Actions to Achieve 60% Residential Waste Diversion New (or Expanded) Recycling Programs and Initiatives – Small Metal (Small Appliances/ Electrical Tools/ Scrap Metal)

6. Small Metal (Small Appliances/ Electrical Tools/ Scrap Metal)

Summary:

- Implement a semi-annual curbside collection of small metal items
- Pilot depot collection at select multi-residential buildings

It is estimated that 800 to 1,000 tonnes of small appliances (e.g. toasters, hand mixers, etc.), electrical tools and small pieces of scrap metal end up in the garbage annually even though these materials can be taken to an EnviroDepot or scrap metal yard to be recycled. Approximately 75% of this material (600 to 750 tonnes) comes from single family homes and 25% (200 to 250 tonnes) from multi-residential buildings.

The province may develop a new provincial program for small appliances and electrical tools under the *Waste-Free Ontario Act* in the future but measures to increase diversion of these materials can be taken in the interim. There are strong markets for scrap material and collection can be provided at a reasonable cost.

In order to divert more of this material from the waste stream, it is recommended that the City:

- Implement semi-annual curbside collection of small metal items beginning in 2020, and;
- Pilot depot collection at select multi-residential buildings beginning in 2020.

A few Ontario municipalities allow residents to put metal cookware in their Blue Box and some offer a call-in service for the pickup of large appliances, but none offer a dedicated collection of small appliances, electrical tools and small pieces of scrap metal. Various methods of curbside collection could be piloted in 2019 prior to implementing a City-wide program.

It is estimated that a semi-annual curbside collection program would capture 250 to 400 tonnes of material, cost \$70,000 to \$80,000 to collect and generate \$40,000 to \$60,000 in revenue. It is likely much of the metal will be collected by private scrap haulers before City collection crews arrive. This will reduce potential revenue but also reduce collection costs.

Possible Curbside Collection Parameters

- Limit items to the size of a Blue Box or smaller.
- Accept all appliances, electrical tools, small electronics or other items with a cord.
- Consider use of the Blue Box or similar container to place materials at the curb.

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Appliances/ Electrical Tools/ Scrap Metal)**

Consideration			Electrical Equipment/Small Metal
			Collection at the Curb
Environmental	Change in Diversion	Annual Tonnes Diverted	250 to 400
		Contribution to 60% Target	0.15% to 0.25%
	GHG Benefits	Reduction per Tonne Diverted	4.4 tonnes
		Annual Reduction (tonnes)	1,100 to 1,760 (275 to 440 cars removed from the road ^a)
Social	Public Support		Strong Support
	Resident Benefits/ Issues		Convenience of curbside pick up
Financial	Cost ^b	Collection	\$70,000 to \$80,000
		Processing	\$0
		Other	\$0
		Total	\$70,000 to \$80,000
	Cost per Household		\$0.40 to \$0.44
	Market/Revenue		\$40,000 to \$60,000
Technical	Collection Issues		Incorporated with current pickup schedule
	Processing Issues		Private processor
	Other		Strong markets, commodity prices fluctuate
<p>Notes</p> <p>(a) The diversion of these materials has avoided the Greenhouse Gas (GHG) emissions equivalent to removing the identified number of vehicles per year.</p> <p>(b) Based on industry estimates, literature review and data from other municipalities.</p>			