

**2ND REPORT OF THE**  
**ADVISORY COMMITTEE ON THE ENVIRONMENT**

Meeting held on January 10, 2018, commencing at 12:15 PM, in Committee Room #3, Second Floor, London City Hall.

**PRESENT:** S. Ratz (Chair), M. Bloxam, S. Hall, M. Hodge, J. Howell, N. St. Amour, T. Stoiber, D. Szoller and A. Tipping and J. Bunn (Secretary).

**ABSENT:** K. Birchall, S. Brooks, R. Harvey, L. Langdon and G. Sass.

**ALSO PRESENT:** W. Abbott, T. Arnos, L. Maitland and J. Stanford.

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**I. CALL TO ORDER**

1. Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

**II. SCHEDULED ITEMS**

2. Update on the EA for the Expansion of the W12A Landfill

That it BE NOTED that the attached presentation from J. Stanford, Director, Environment, Fleet and Solid Waste, related to an update on the Expansion of the W12A Landfill, was received.

**III. CONSENT ITEMS**

3. 1st Report of the Advisory Committee on the Environment

That it BE NOTED that the 1st Report of the Advisory Committee on the Environment, from its meeting held on December 6, 2017, was received.

4. 2017 ACE Budget

That it BE NOTED that the 2017 Advisory Committee on the Environment Budget summary, was received.

5. West London Dyke Erosion Control - Municipal Class Environmental Assessment - Notice of Study Commencement

That it BE NOTED that the Notice of Study Commencement from C. Gorrie, and S. Bergman, Stantec Consulting Ltd., related to the West London Dyke Erosion Control Municipal Class Environmental Assessment, was received.

**IV. SUB-COMMITTEES & WORKING GROUPS**

6. Waste Sub-Committee Report

That it BE NOTED that the Waste Sub-Committee Report, from its meeting held on October 11, 2017, was received.

**V. ITEMS FOR DISCUSSION**

7. Advisory Committee Member Contact Information Consent Form

That it BE NOTED that the Advisory Committee on the Environment held a general discussion with respect to the Advisory Committee Member Contact Information Consent form, as appended to the agenda.

8. Urban Agriculture Steering Committee

That D. Szoller BE APPOINTED to the Urban Agriculture Steering Committee as the Advisory Committee on the Environment representative, as per the terms of reference for the Urban Agriculture Steering Committee.

9. Resilient Cities Event Report

That it BE NOTED that the Advisory Committee on the Environment (ACE) held a general discussion related to the report, dated January 8, 2018, entitled "Resilient Cities Conference: Preparing London for a Rapidly Changing Future"; it being noted that a final version of the report will be submitted to the February ACE meeting for consideration of the ACE.

10. 2018 ACE Event(s)

That it BE NOTED that the Advisory Committee on the Environment (ACE) held a general discussion related to event ideas that could be hosted by the ACE in 2018.

11. 2017 ACE Work Plan

That review of the 2017 Advisory Committee on the Environment Work Plan BE DEFERRED to the February meeting.

12. 2018 ACE Work Plan Discussion Points

That it BE NOTED that the Advisory Committee on the Environment (ACE) held a general discussion related to the 2018 ACE Work Plan.

**VI. DEFERRED MATTERS/ADDITIONAL BUSINESS**

13. (ADDED) EEPAC March Meeting Invitation

That it BE NOTED that the Advisory Committee on the Environment was extended a verbal invitation to attend the Environmental and Ecological Planning Advisory Committee meeting to be held on March 15, 2018 at 5:30 PM, at which Ellen Schwartzel, Deputy Commissioner for Environmental Commissioner of Ontario, will be attendance to discuss a variety of environmental issues.

**VII. ADJOURNMENT**

The meeting adjourned at 1:59 PM.

**NEXT MEETING DATE: February 7, 2018**

**Why Waste?**

## UPDATES

- Residual Waste Disposal Strategy
- 60% Waste Diversion Action Plan
  - Resource Recovery Strategy
  - Key Provincial Direction and other updates

**Advisory Committee on the Environment**  
January 10, 2018




**Why Waste?**

## Overview

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- Part 1 – Update 4 Key Project Parameters
- Part 2 – November/2017 Open House Information – EA Focus
- Part 3 – 60% Waste Diversion & RR Strategy
- Part 4 – Other Updates




**Why Waste?**

## Part 1 – Update on 4 Key Project Parameters

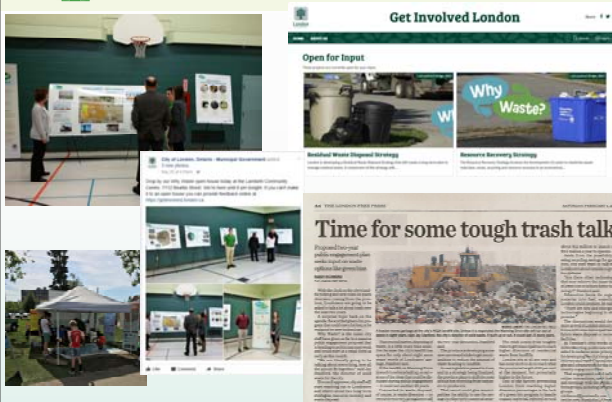
**Council direction Feb/17 included:**

- Solicit feedback on 11 Draft Guiding Principles
- Solicit feedback on 4 key parameters as part of Terms of Reference development
- Canvass municipalities responsible for waste management within the proposed service area to determine interest in using any future waste disposal or future resource recovery facility
- Further reports to CWC via the WMWG



**Why Waste?**

## Solicit Feedback



**Why Waste?** **Residual Waste Strategy**  
(All 4 Approved by Council October 30, 2017)

**Four Key Parameters for the Proposed Expansion of W12A Landfill**

1. Expand to 2050 (25 years beyond existing capacity).
2. Place limits on annual tonnage that can be landfilled.
3. Consider allowing neighbouring municipalities to use new/expanded facilities.
4. Commit to increasing residential waste diversion from 45% to 60%.

**Why Waste?** **1. Length of Time**

Considerations	New Disposal Planning Periods (years)			
	20	25	30	35
Consistent with Other EAs	✓	✓	✓	✓
Consistent with Waste-Free Strategy	✓	✓	x	x
MOECC Comments	✓	✓	x	x
Understanding of Community Considerations	✓	x	x	x
Financial Considerations	x	✓	✓	✓

**Why Waste?** **2. Limits on Annual Tonnage**

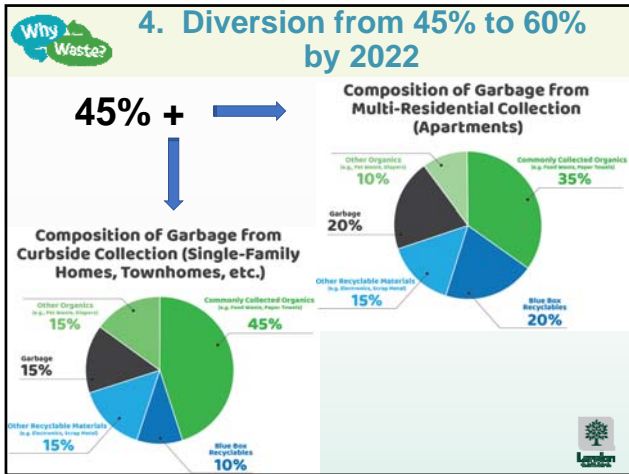
- Current limit = 650,000 tonne/year
- Proposed limit = 500,000 tonne/year

Consideration	Tonnes
Existing Service Area (estimated peak)	377,000
Additional from Expanded Area (average)	53,000
Contingency (about 15%)	70,000
<b>Total</b>	<b>500,000</b>

**Why Waste?** **3. Service Area (Disposal)**

Consider allowing neighbouring municipalities to use new/expanded facilities.

Note; use of potential resource recovery facilities has a larger potential area.



### Part 2 - Second Series of Open Houses (November 29 & 30, 2017)

**WELCOME**  
to the Second Series of Open Houses for the Residual Waste Disposal and Resource Recovery Strategies

**Today you will learn about:**

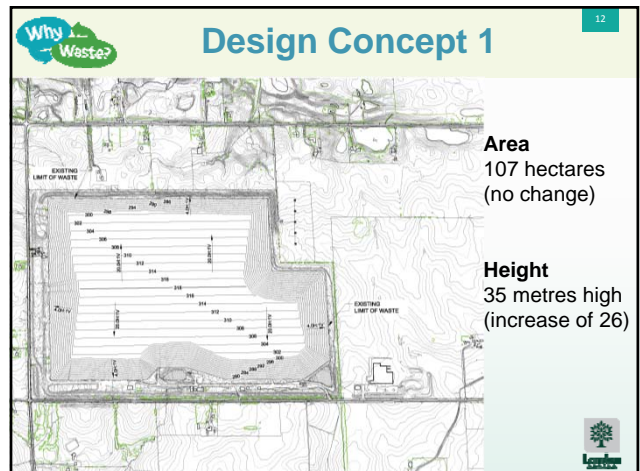
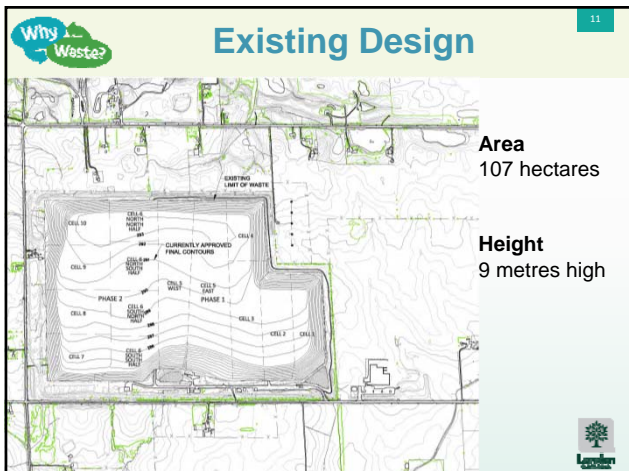
- Environmental Assessment for Proposed W12A Landfill Expansion, including:
  - Purpose of the proposed landfill expansion
  - Landfill expansion alternatives (known as 'Alternative Methods') being considered
  - Proposed criteria (known as "environmental components") to compare and evaluate the 'Alternative Methods'
  - Proposed studies to gather data about the proposed criteria
- Resource Recovery Strategy including:
  - Update on changes to waste management and diversion coming from the Province
  - Potential programs/initiatives to get to 60% waste diversion
  - Key technologies for advanced diversion and resource recovery
- How you can be involved, stay informed and provide feedback

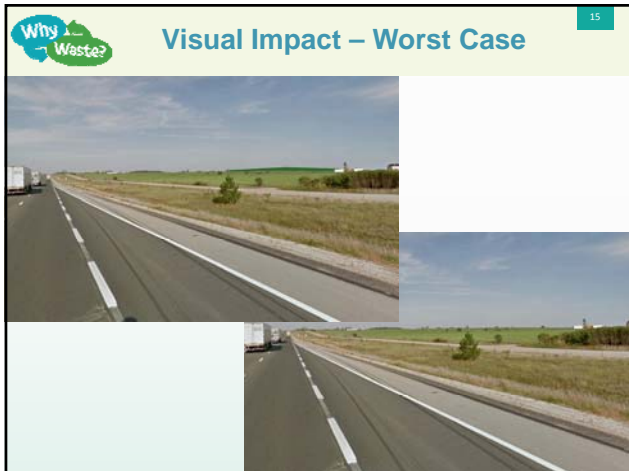
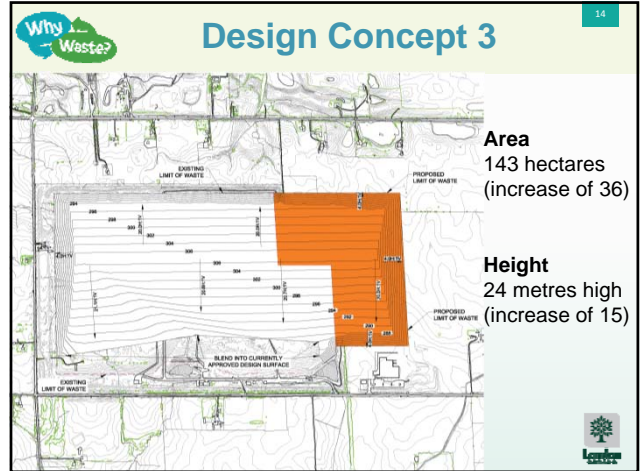
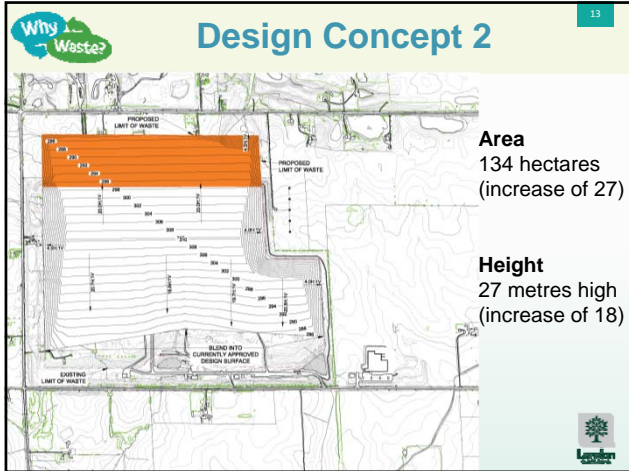
[getinvolved.london.ca/WhyWasteDisposal](http://getinvolved.london.ca/WhyWasteDisposal)

[getinvolved.london.ca/WhyWasteResource](http://getinvolved.london.ca/WhyWasteResource)

**Q/A** City staff and project consultants are available to answer your questions and discuss the information presented.

Your questions and comments are important to us. Please complete feedback forms and it will be included in the EA consultation report.





**Why Waste?**

### Environmental Components

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Category	Proposed Environmental Components	
	Environmental Component	Environmental Sub-components
Environmental	Atmosphere	<ul style="list-style-type: none"> <li>Air quality (including dust, odour and greenhouse gases)</li> <li>Noise</li> </ul>
	Biology	<ul style="list-style-type: none"> <li>Aquatic ecosystems</li> <li>Terrestrial ecosystems</li> </ul>
	Geology & Hydrogeology	<ul style="list-style-type: none"> <li>Groundwater quality</li> </ul>
	Surface Water	<ul style="list-style-type: none"> <li>Surface water quality</li> <li>Surface water quantity</li> </ul>
Social	Agriculture	<ul style="list-style-type: none"> <li>Agriculture</li> </ul>
	Archaeology	<ul style="list-style-type: none"> <li>Archaeology</li> </ul>
	Culture	<ul style="list-style-type: none"> <li>Cultural heritage landscapes</li> <li>Cultural heritage resources (including built heritage)</li> </ul>
	Land Use	<ul style="list-style-type: none"> <li>Current and planned future land uses</li> </ul>
	Socio-economic	<ul style="list-style-type: none"> <li>Local economy</li> <li>Residents and community</li> </ul>
Technical	Visual	<ul style="list-style-type: none"> <li>Visual</li> </ul>
	Design and Operations	<ul style="list-style-type: none"> <li>Technical Considerations</li> <li>Financial Considerations</li> </ul>
	Transportation	<ul style="list-style-type: none"> <li>Traffic</li> </ul>

**Top Ranked**

- Groundwater Quality
- Aquatic Ecosystems
- Terrestrial Ecosystems
- Air Quality

**Bottom Ranked**

- Heritage Landscapes
- Heritage Resources
- Archaeology
- Noise

**EA Key Upcoming Dates**

Major Activity	Date / Timeframe
Waste Management Working Group	February 2018
Submission of Draft Proposed Terms of Reference (ToR) to Civic Works Committee (CWC)	March 2018
Seek stakeholder input on Draft Proposed Terms of Reference	April/May 2018
Public Participation Meeting (PPM) at CWC	June 2018
Council approval of Proposed ToR and submission to the Province	June/July 2018

**PART 3 – 60% Waste Diversion & RR Strategy**

**With respect to organics. . . Council approved on October 30, 2017:**

d)The W12A Landfill expansion be sized assuming the residential waste diversion rate is 60% by 2022 noting this does not prevent increasing London’s residential waste diversion rate above 60% between 2022 and 2050.

- 60% Diversion Action Plan & Resource Recovery Strategy**
- Key information presented for:
- Food Waste Avoidance
  - Home Composting
  - Community Composting
  - City Waste Organics – Curbside
  - City Waste Organics - Multi-Residential
  - Other Recyclables

**Example - Food Waste Reduction**

Tell us how much you want us to invest in this initiative?!	Moderate (investment of resources)	Significant (investment of resources)
How will resources be invested?	- Promotion and community outreach programs, and information to households.	- Same as Moderate plus provide each household with a food waste reduction tool kit to help them reduce food waste.
How much closer will it get us to the 60% goal?	0.12% (96 tonnes)	1.3% (2,100 tonnes)
Annual cost	\$180 K	\$1.2 M
Cost per household	\$1	\$7
Cost per tonne	\$950	\$570
Expected annual household savings	\$ 1 M	\$10 M
GHG <sup>2</sup> avoided	600 tonnes	6,100 tonnes
GHG <sup>2</sup> reduction for every tonne diverted	2.9 tonnes	

**Why Waste?** **Getting to 60% by 2022**

**Achievable with Today's Technologies**

Component	Diversion Rate	Comment
Existing Diversion	45%	• Blue Box, leaf/ yard, depots, etc.
Food Waste Avoidance & More Home Composting	0.5% to 1.5%	• Drive by education and awareness
Source Separated Organics (Green Bin)	8% to 10%	• May need to go to biweekly garbage
Other Programs	4% to 5%	• Reduction, more recycling, etc.
<b>Total</b>	<b>60%</b>	

**Why Waste?** **60% Diversion Action Plan & Resource Recovery Strategy** 22

**Revised Timeframe – Tied to Provincial Direction, Policies & Legislation**

	Current Timeframe	Revised Timeframe
Draft 60% Diversion Action Plan (i.e., how to achieve 60%) – for final comments	March - April 2018	May - June 2018
Final 60% Diversion Action Plan	May - June 2018	July - August 2018
Draft Resource Recovery Strategy – for final comments	May - June 2018	July - August 2018
Final Resource Recovery Strategy	July - August 2018	January 2019

**Why Waste?** **Part 3 – Other Updates Recycling Markets** 23

**Crackdown in China raises questions over fate of our recyclables**

**RESOURCE RECYCLING**  
Your trusted source for recycling news and analysis

Resource Recycling - Plastics Recycling Update - E-Scrap News - Conferences

**China's Sword effort continues to rattle market**  
Posted on April 4, 2017

**China's Sword**  
Chinese customs authorities are inspecting every container entering the country at certain ports, causing longer shipping times. And some observers say the enforcement efforts could also be driving down recovered paper prices.

"All containers are being checked using X-ray machines, and where these are not available, then the containers will be opened for examination." UK-based source The Resource Association recently reported in a

**Mountains of US recycling pile up as China restricts imports**

Mountains of US recycling pile up as China restricts imports

**Why Waste?** **Proposed Food and Organic Waste Framework** 24

**PROPOSED FOOD AND ORGANIC WASTE FRAMEWORK**

**CWC Report (Jan. 9, 2018)**

**COMMENTS ON ENVIRONMENTAL BILL OF RIGHTS REGISTRY - PROPOSED FOOD AND ORGANIC WASTE FRAMEWORK**

Includes:  
Part A: Food and Organic Waste Action Plan  
Part B: Food and Organic Waste Policy Statement

Ministry of the Environment and Climate Change  
November 2017



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## Draft Amended Blue Box Program Plan

Blue Box Program Plan

Draft for Consultation  
December 2017.

CWC Report (Jan. 9, 2018)

REQUEST FOR COMMENTS ON THE DRAFT AMENDED BLUE BOX PROGRAM PLAN (PREPARED BY STEWARDSHIP ONTARIO)

Produced by: Stewardship Ontario

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# Questions ?????

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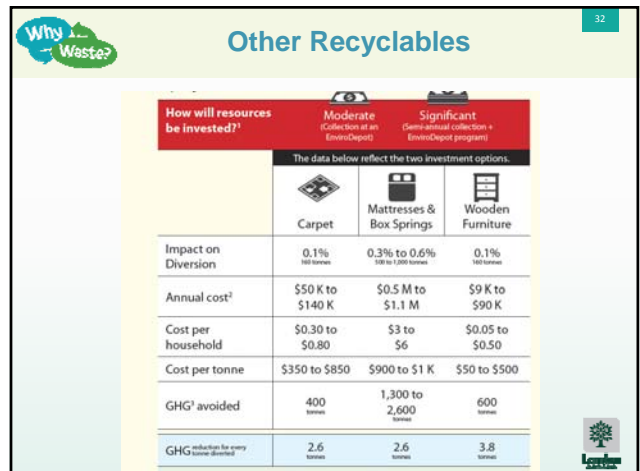
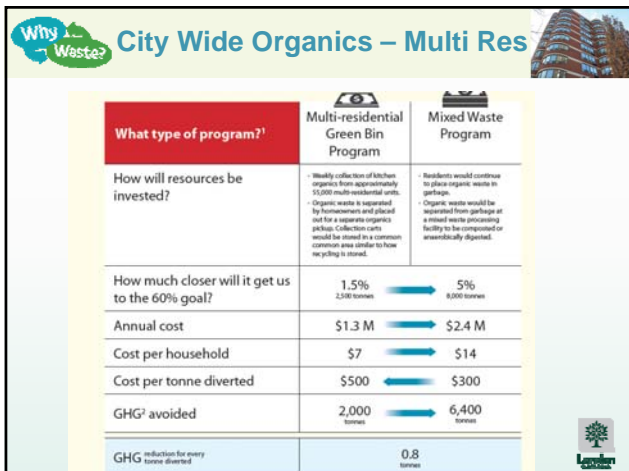
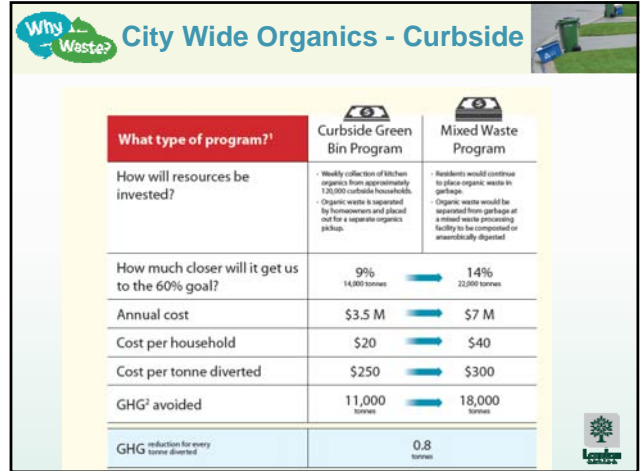
## ADDITIONAL SLIDES

**NOTE-** The following slides are not part of the overall presentation.

However to accommodate available timeframes with different audiences some slides may be provided in hard and/or electronic copy and not referred to in the verbal presentation

Why Waste? Home Composting

Tell us how much you want us to invest in this initiative?!	Existing (Home Composting Program)	Moderate (Investment of resources)	Significant (Investment of resources)
How will resources be invested?	- Promoted separately, set at cost at EcoDepts	- Moderate additional promotion and 50% subsidy of composters	- Significant additional promotion and outreach and 75% subsidy of composters
How much closer will it get us to the 60% goal?	3.5% (included in 6% current diversion rate)	0.2% (300 tonnes)	0.7% (1,000 tonnes)
Annual cost	\$150 K (based on amended tonnage processing rates)	\$130 K	\$210 K
Cost per household	No additional	\$0.75	\$1.20
Cost per tonne	No additional	\$450	\$190
GHG <sup>2</sup> avoided		240 tonnes	900 tonnes
GHG <sup>2</sup> reduction for every tonne diverted		0.8 tonnes	



**Why Waste?** 33

## Other Recyclables

**How will resources be invested?**

	Moderate (Collection at an EnviroDepot)	Significant (Some curbside collection + EnviroDepot program)	
The data below reflect the two investment options.			
	 Electrical Equipment, Metal	 Textiles	
		 Bulky Plastics	
Impact on Diversion	0.1% to 0.2% <small>100 to 220 tonnes</small>	0.2% to 0.5% <small>220 to 600 tonnes</small>	0.03% to 0.06% <small>50 to 100 tonnes</small>
Annual cost <sup>2</sup>	\$20 K to \$110 K	\$0 K to \$110 K	\$20 K to \$80 K
Cost per household	\$0.10 to \$0.60	\$0 to \$0.60	\$0.01 to \$0.40
Cost per tonne	\$125 to \$350	\$0 to \$150	\$400 to \$800
GHG <sup>3</sup> avoided	700 to 1,400 <small>tonnes</small>	3,000 to 8,000 <small>tonnes</small>	50 to 100 <small>tonnes</small>
GHG reduction for every tonne diverted	4.4 <small>tonnes</small>	10 <small>tonnes</small>	1 <small>tonne</small>

**Why Waste?** 34

## Waste Reduction and Reuse

**How will resources be invested?**

	Moderate Investment	Significant Investment
Program Cost for Examples		
	Per household Net annual cost	
Lending libraries	\$0.25 \$45 K	\$0.50 \$90 K
Repair workshops	\$0.25 \$45 K	\$0.50 \$90 K
Promote reuse events	\$0.25 \$45 K	\$0.50 \$90 K
Waste reduction education and outreach	\$0.55 \$100 K	\$1.10 \$200 K

<sup>1</sup> Quantity of materials and equipment for all examples is assumed to be 100 tonnes. For example, one lending library would require 100 tonnes of materials and equipment.

<sup>2</sup> These investments include a range of program types and sizes. For example, a repair workshop could be a small-scale program (e.g., 100 workbenches) or a larger program (e.g., 100 workbenches and 100 tools).

<sup>3</sup> Estimates include the energy needed to produce the materials and equipment. For example, the energy needed to produce 100 tonnes of materials and equipment is 100 tonnes of energy.

<sup>4</sup> Includes the energy needed to produce the materials and equipment. For example, the energy needed to produce 100 tonnes of materials and equipment is 100 tonnes of energy.

**Why Waste?** 35

## Waste Reduction Policies

**Do you support changes to the By-law to increase waste diversion?**

Indicate which of the examples below you support.

	Yes	No
<p><b>Expand &amp; enforce material bans</b></p> <p style="font-size: x-small;">Some materials are banned from collection at the curb and landfill (e.g., electronics, scrap metal, appliances, and tires). This could be expanded to include materials that can be recycled/composted now or in the future, such as blue box recyclables, wooden furniture, mattresses, carpet, and organics. An expanded list of banned materials may require additional enforcement to be effective.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Clear bags for garbage</b></p> <p style="font-size: x-small;">Some municipalities have introduced clear bags for garbage to facilitate enforcement of material bans. Generally, clear bag programs have an allowance for one non-clear privacy bag.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Reduced garbage container limits</b></p> <p style="font-size: x-small;">Further reduction of garbage container limits may be implemented in conjunction with new diversion programs, such as a city-wide organics program. This may also be accomplished by reducing frequency of collection of garbage (from once per six business days to bi-weekly collection).</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>User pay</b></p> <p style="font-size: x-small;">In larger communities, user pay for garbage is typically restricted to cart based programs; residents pay an annual fee based on the size of cart they select.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Performance-based incentives</b></p> <p style="font-size: x-small;">Some examples include: use of incentives such as point reward systems, or a "gold box" for correct recycling, rebate in User Pay programs for selection of the small size cart.</p>	<input type="checkbox"/>	<input type="checkbox"/>