

# Garbage and Recycling **MASTER PLAN**

## **Future of Brady Road Landfill**



SpeakUpWinnipeg.com

# Introduction

## **We are creating a Garbage and Recycling Master Plan to present to City Council in fall 2011 that:**

- ▶ provides options that together will keep more than 50% of our garbage out of the landfill
- ▶ provides equitable and uniform garbage collection service
- ▶ supports the licensing process for Brady Road Landfill

## **We want to minimize the amount we put in the landfill by:**

- ▶ reducing and reusing instead of throwing away
- ▶ increasing the amount we recycle and recover

# Guiding Principles

**When identifying options and recommendations for the master plan, we considered, as a priority:**

- ▶ benefits to the environment and Brady Road Landfill
  - by keeping valuable resources out of the landfill
  - by reducing harmful effects of garbage in the landfill
- ▶ cost for the community
- ▶ ease and convenience for residents to participate



# Our Master Plan

## **As part of our master plan, we are considering:**

- 1.** Curbside recycling collection options
- 2.** Community depots for dropping off materials for reuse
- 3.** Yard waste collection options
- 4.** Curbside organics collection program
- 5.** Garbage collection recommendations
- 6.** Bulky waste service options
- 7.** Green opportunities at Brady Road Landfill

# 1. Curbside Recycling Collection Options

## OPTION 1

### Automated collection using blue carts

- ▶ One cart is delivered to each home
  - cost of about \$9 million (\$40 - \$50 per cart)
- ▶ Residents choose the size of the cart (240 or 360 litres)

- Carts:**
- ▶ are at least 3 - 4 times the size of current blue boxes
  - ▶ are easy to roll and extremely durable
  - ▶ are a safer and more efficient system for collectors
  - ▶ help reduce litter and keep the material dry which improves its value when sold
  - ▶ are economical in the long term since higher revenue from more recyclable material will cover the cost of buying the carts



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[garbage.speakupwinnipeg.com](http://garbage.speakupwinnipeg.com)  
or phone 311.

# Curbside Recycling Collection Options (continued)

## OPTION 2

### Continue with blue box service

- ▶ One blue box is delivered to each home
  - cost of about \$1.2 million (\$7 per box)

- Blue boxes:**
- ▶ are more flexible, so you can use as few or as many as you need to
  - ▶ need less storage space (if you use just one)
  - ▶ cost less to replace than carts
  - ▶ are less effective in the long term because we will not collect as much material as we would by using carts



## 2. Community Drop-off Depots

### Depots:

- ▶ would accept material from residents that could be recycled or reused (e.g., construction material, bulky waste, yard waste)
- ▶ would cost \$1 - \$2 million each
- ▶ could keep at least 10,000 tonnes out of the landfill each year



## 3. Yard Waste Collection

### Current System

- ▶ 2 curbside collection dates in May and 2 in October for residents in the northwest area serviced by automated garbage cart collection
- ▶ 10 seasonal depots throughout the city



# Yard Waste Collection Options

## OPTION 1

### **Biweekly curbside collection**

- ▶ every 2 weeks from April to November
- ▶ program cost of about \$15 - \$20 per house per year
- ▶ potential to collect and compost at least 25,000 tonnes per year

## OPTION 2

### **Curbside and expanded depot collection**

- ▶ 2 collection dates in spring and 2 in fall
- ▶ more seasonal drop-off depots
- ▶ program cost of about \$6 - \$8 per house per year
- ▶ potential to collect and compost at least 10,000 tonnes per year

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## 4. Curbside Organics Program

- ▶ The program has the potential to collect and compost at least 41,000 tonnes per year
- ▶ The program would begin only when a new organics composting facility is in place
- ▶ One green cart is delivered to each home
- ▶ Program cost is about \$30 - \$40 per house per year

- Carts:**
- ▶ hold between 60 and 240 litres, depending on the size selected for the program
  - ▶ are easy to roll and extremely durable
  - ▶ are intended only for kitchen organic waste (e.g., fruit and vegetable scraps, coffee grounds)

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## 5. Garbage Collection

### Current System

We collect garbage using 4 different methods...

1. Manual collection in most of the city – no limit to the volume of garbage put out
2. Automated cart collection in the northwest part of the city – volume of garbage limited by cart size
3. AutoBin collection in central and north Winnipeg – shared bins with no limit to the volume of garbage put out
4. Wheelbarrow style carts for 900 homes in parts of the AutoBin area – volume of garbage limited by cart size

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# Garbage Collection Recommendations

- ▶ Phase out manual, AutoBin and wheelbarrow cart collection
- ▶ Phase in automated garbage cart collection (already in place in the northwest area)
- ▶ Deliver one 240-litre cart to each home
  - cost of about \$7 million (\$40 - \$50 per cart)
- ▶ Offer larger size carts or extra carts to residents for an annual fee

- Carts:**
- ▶ are equal to 3 regular size garbage containers
  - ▶ have large wheels that make them easy to roll, even over curbs, gravel and snow
  - ▶ are made of a durable plastic material, and last about 20 years
  - ▶ are economical in the long term because lower collection costs help balance out the cost of buying the carts

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# Reasons to Discontinue AutoBin and Wheelbarrow Collection Service

- ▶ AutoBin and wheelbarrow cart collection service is twice as expensive as other methods of garbage collection
- ▶ AutoBin collection service is becoming obsolete – most cities have eliminated AutoBins because they:
  - encourage unlimited garbage
  - discourage recycling
  - are prone to arson, illegal dumping and graffiti
  - discourage individual responsibility for keeping the area around the bins free of litter
  - make snow removal more difficult



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# Advantages of Automated Cart Collection

- ▶ Cost savings in the long term because automated collection is more efficient than manual collection
- ▶ Safer work environment for garbage collectors
- ▶ Standard size container for collection
- ▶ Limited size, encouraging residents to recycle and compost
- ▶ Fewer litter, odour and pest problems because the carts have lids
- ▶ Uniform community look on collection day

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# Disadvantages of Automated Cart Collection

- ▶ Initial investment required for cart purchase
- ▶ Unlimited volume of garbage no longer collected
- ▶ A little more effort required to place the cart in a clear spot at the curb/lane in winter
- ▶ Higher replacement cost for carts than traditional garbage cans
- ▶ Limited choice for purchasing carts – available only through the City because each cart has a serial number and an electronic tag so it can be traced to an address

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## 6. Bulky Waste Service Options

### Bulky Waste

- ▶ includes items such as appliances, air conditioners, mattresses, furniture
- ▶ currently has a \$20 collection charge (for up to 6 items) in all areas except the inner city

#### **OPTION 1** Fee for service

- ▶ all users pay (eliminate the inner city “no charge” zone)

#### **OPTION 2** Tax-supported service

- ▶ any resident can request the service at no direct charge
- ▶ cost is supported by all taxpayers

#### **OPTION 3** Discontinue providing collection service

Residents are responsible for hauling their items away, either to a community depot or to the landfill

## 7. Green Opportunities at Brady Road Landfill

- ▶ Community depot for recycling and reusing material
- ▶ “Green Park” for local industries that would remake the materials on site into reusable items for sale
- ▶ Composting facility that would produce material that could be sold, given to the public, or used on City property



# Benefits of the Master Plan to the Brady Road Landfill

## Benefits of reducing and reusing instead of throwing away:

- ▶ less long-term care of the landfill
- ▶ less toxic liquid to be captured and treated
- ▶ less greenhouse gas
- ▶ extended lifespan of landfill
- ▶ reduced cost to manage and operate



# Amount of Garbage that We Can Reduce

We currently keep only about 17% of our residential garbage out of the landfill (e.g., by recycling, composting).

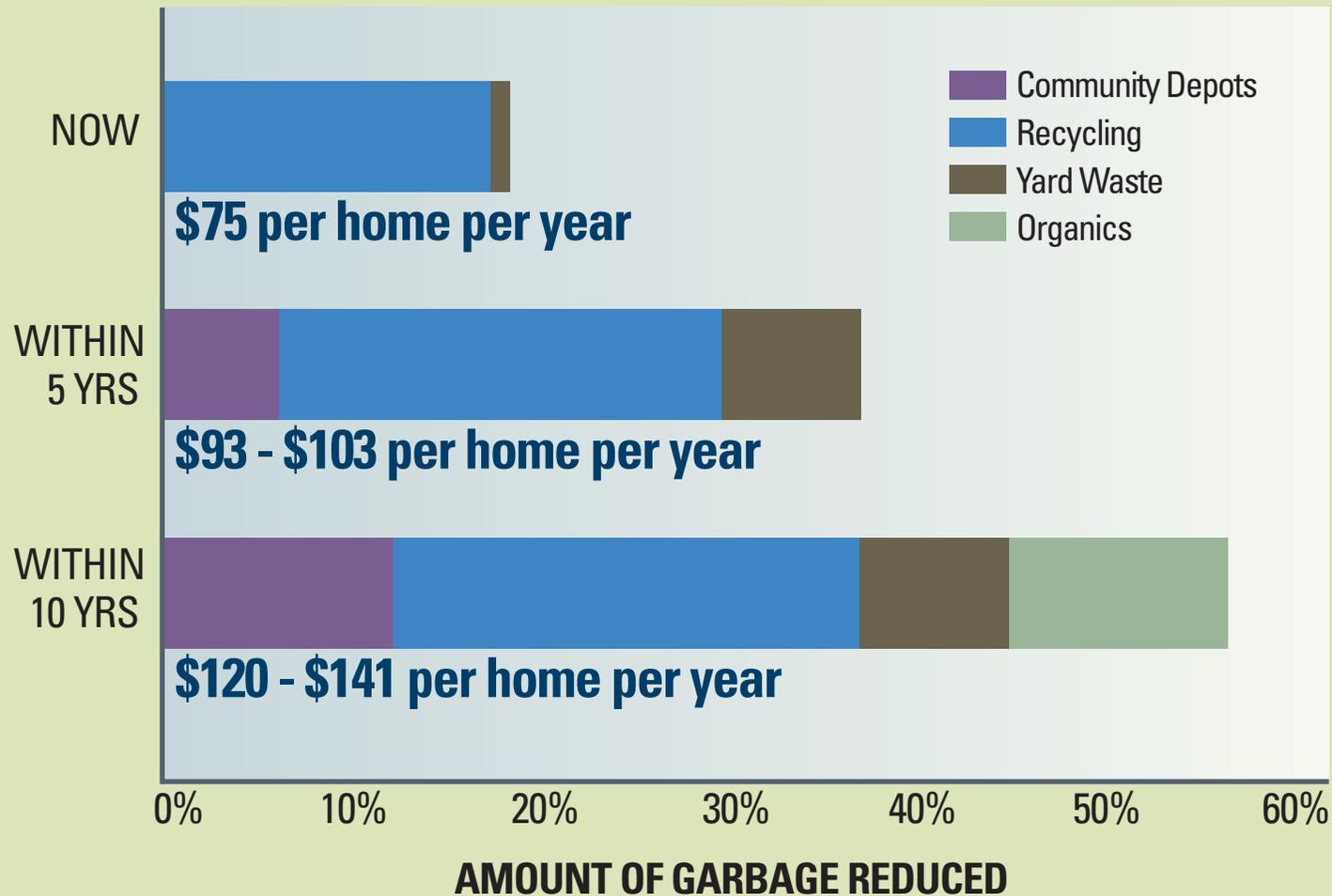
Over the next 20 years, the Garbage and Recycling Master Plan has the potential to keep more than 50% of our garbage out of the landfill.

In order to reach this target, we need programs that help us reduce and reuse, such as:

- ▶ community drop-off depots
- ▶ increased recycling services
- ▶ yard waste collection and composting
- ▶ curbside kitchen waste organics



# Cost of Keeping Garbage Out of the Landfill



# Estimated Time to Implement the Options

Program	Within 5 years	Within 10 years
Community drop-off depots	X	
Increased recycling services	X	
Automated garbage collection services	X	
Yard waste composting program	X	
Kitchen waste organics program		X