

# **Waste and Diversion Advisory Committee (WDAC)**

**Tuesday June 16, 2015**

## Presentation Outline

- Why Organics Diversion?
- Organics Diversion in Winnipeg
- Organics Diversion Strategy - Next Steps
- Organics Diversion Strategy Outcomes
- Questions

## Why Organics Diversion?

- When organic waste breaks down, it creates greenhouse gases (GHGs)
- Majority of GHGs produced by organic waste are methane and carbon dioxide
- Emissions from Canadian landfills account for 20% of national methane emissions<sup>1</sup>

1. Environment Canada <http://www.ec.gc.ca/gdd-mw/default.asp?lang=En&n=6F92E701-1>

# Why Organics Diversion?

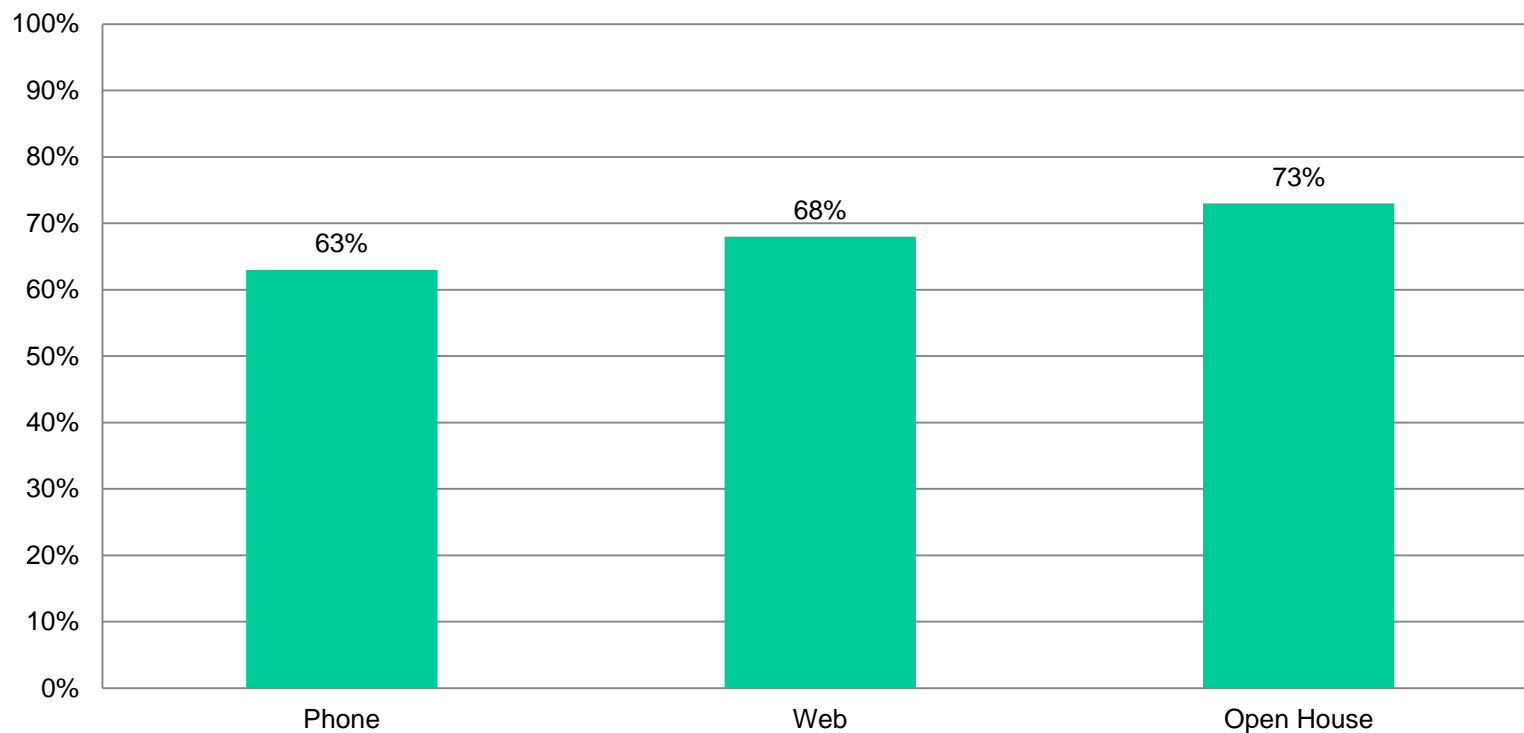
- Benefits:
  - Protect human and environmental health
  - Reduce long-term costs related to landfilling waste (e.g., leachate, greenhouse gas emissions)
  - Extend the life of the landfills
  - Valuable end-products (e.g., compost & gas recovery)
  - Provides direct and indirect employment opportunities
  - Cost savings from reduction in fossil fuel and fertilizer
  - Reducing reliance on non-renewable resources

# Why Organics Diversion?

- Challenges:
  - Managing inputs
  - Managing odours and nuisances
  - Impact of collection
  - User participation and acceptance
  - Low tipping fees and cost of disposal
  - Capital and operating costs for organics processing are higher than disposal

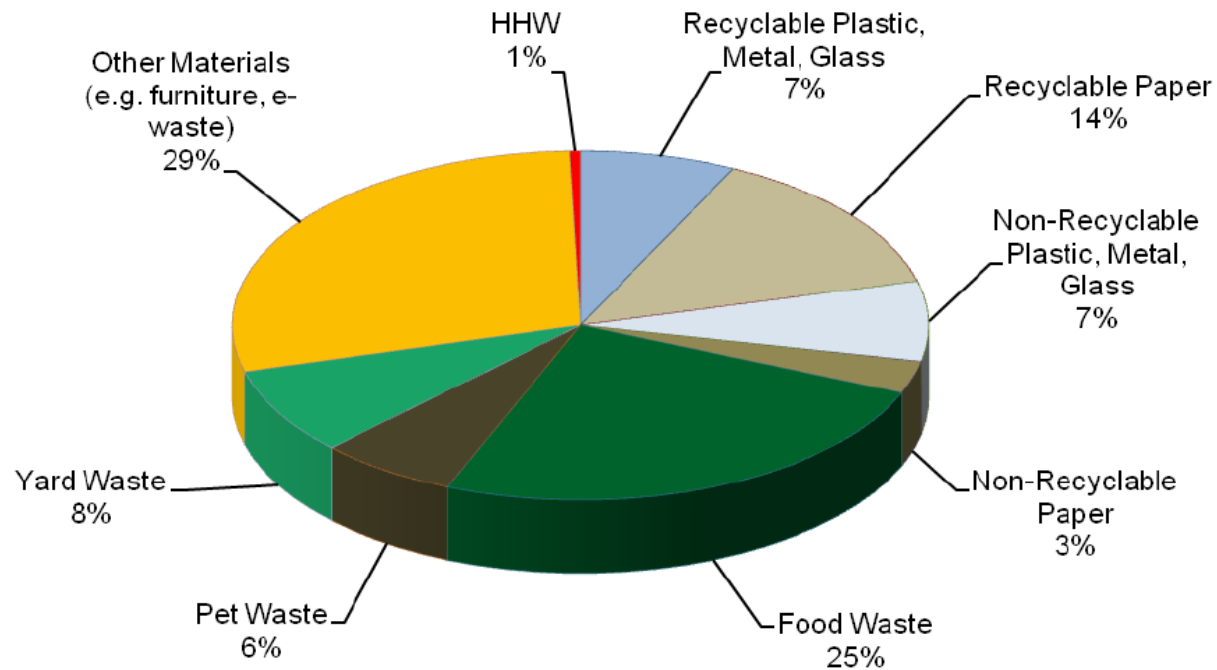
# Why Organics Diversion?

## Winnipeggers Support It



# Why Organic Diversion?

## Estimated Composition of Residential Waste Sent to Landfill (2009)



# Why Organic Diversion?

## Diversion Potential for Winnipeg

- 78,000 tonnes<sup>1</sup> per year of residential organics
- 25,000 tonnes<sup>2</sup> per year of residential leaf and yard waste
- 40,000 tonnes<sup>3</sup> per year of commercial food waste

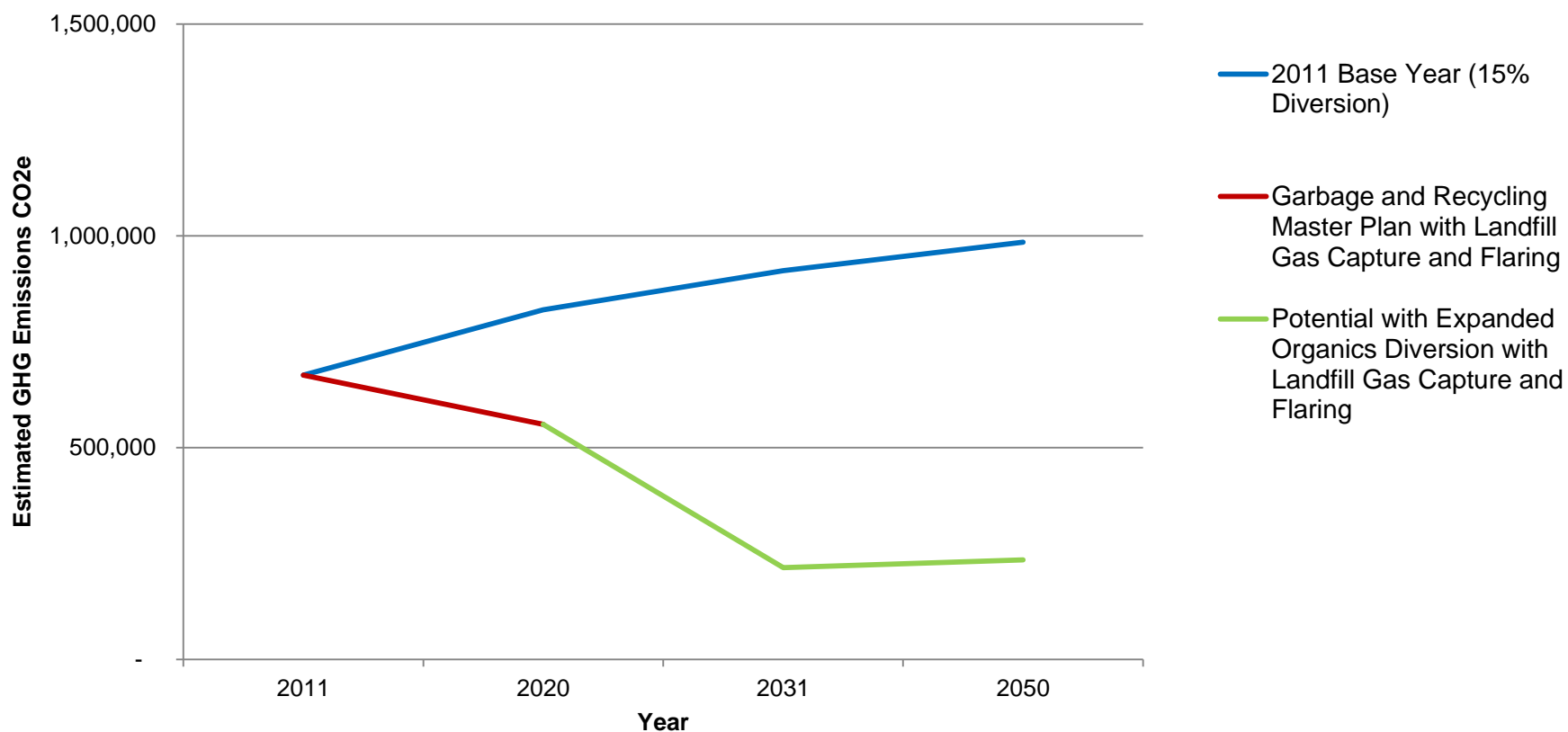
1, 2. Comprehensive Integrated Waste Management Plan p. 151

3. Estimated 348,000 tonnes per year of ICI waste generated in Winnipeg with 14% being food waste and ~80% capture rate  
See Comprehensive Integrated Waste Management Plan p 31-32.



# Why Organics Diversion?

## Projections of GHG to 2050



# Organics Diversion in Winnipeg

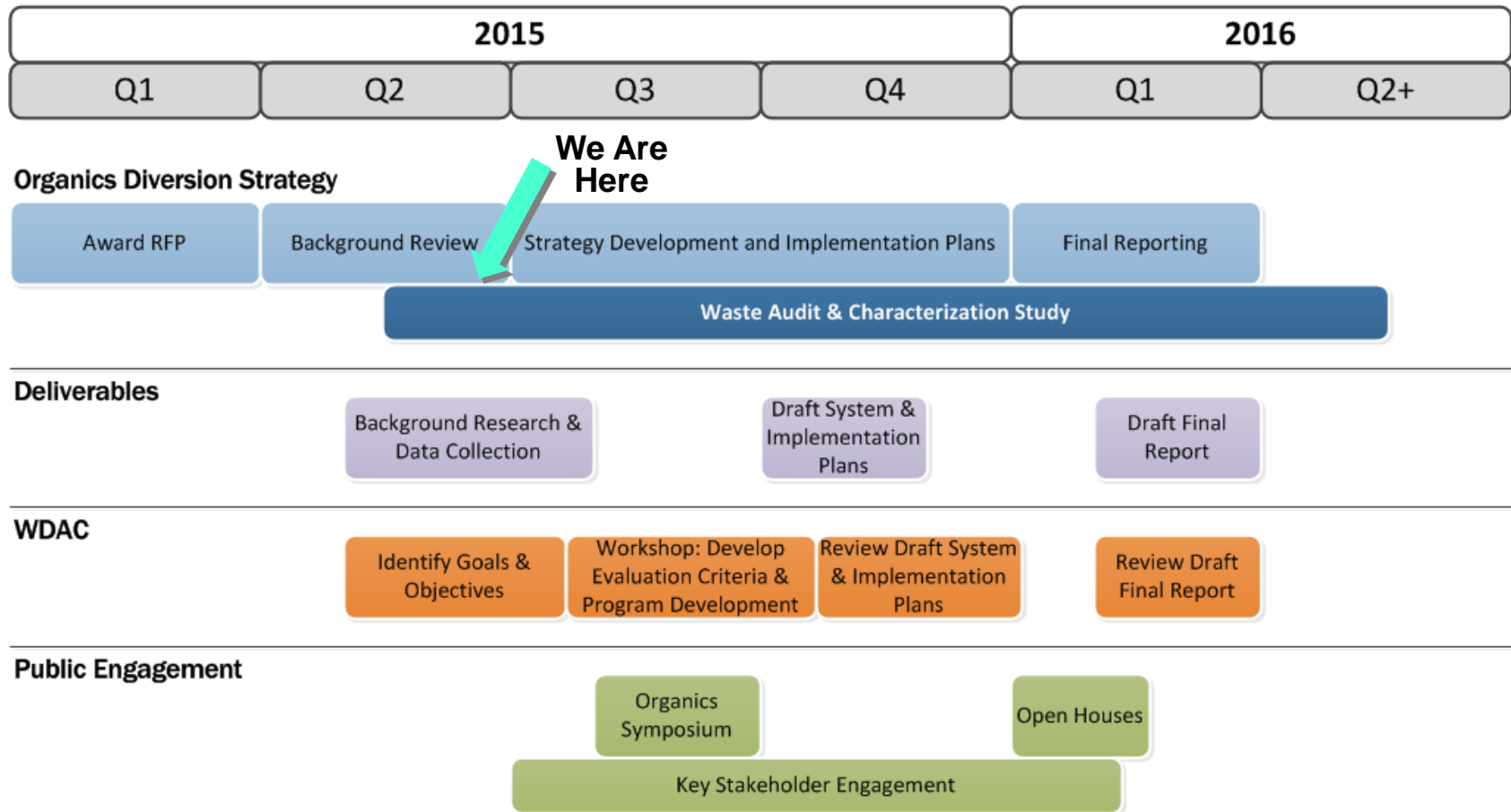
- Existing programs
  - Seasonal residential leaf and yard waste collection
  - Backyard composters
  - Biosolids composting pilot
  - City operations (e.g., landscaping, tree pruning, retention ponds, street leaves)

# Organics Diversion in Winnipeg

- What could we include in the future?
  - Kitchen waste
  - Pet waste
  - Leaf and yard waste
  - Biosolids
- All Sectors
  - Single-family
  - Multi-family
  - Institutional, commercial and industrial (ICI)
  - Construction and demolition (C&D)

# Organics Diversion Strategy

## Next Steps



# Organics Diversion Strategy Next Steps

## WDAC Role

- WDAC committee will build on input gathered at public engagement events:
  - identify goals and objectives
  - help develop program and evaluation criteria
  - review draft system and implementation plans
  - review draft final report

# Organics Diversion Strategy Next Steps

## Waste Audit and Characterization Study

- Identify the amount of organic waste generated in Winnipeg to feed into the Organics Diversion Strategy
- The following sectors will be examined over four seasons:
  - Single-family
  - Multi-family
  - ICI
  - C&D

# Organics Diversion Strategy Outcomes

- Report to Council with recommendations for an organics diversion program
- Identification of timelines and resources needed to implement the program
- Public engagement strategy consistent with best-practices

**Questions?**