

Waste and Diversion Advisory Committee

Tuesday, April 21, 2015

Garbage and Recycling Master Plan Background

- In 2009, Winnipeg had a waste diversion rate of 15%, which was one of the lowest in Canada
- In 2010, City Council asked the Public Service to prepare a comprehensive waste management plan to increase our waste diversion rate to 50%
- The plan was developed using a three-phase approach, utilizing the expertise of waste management consultants, advice from an advisory committee, and feedback from an extensive public participation process
- City Council approved the Master Plan on October 19, 2011

Garbage and Recycling Master Plan

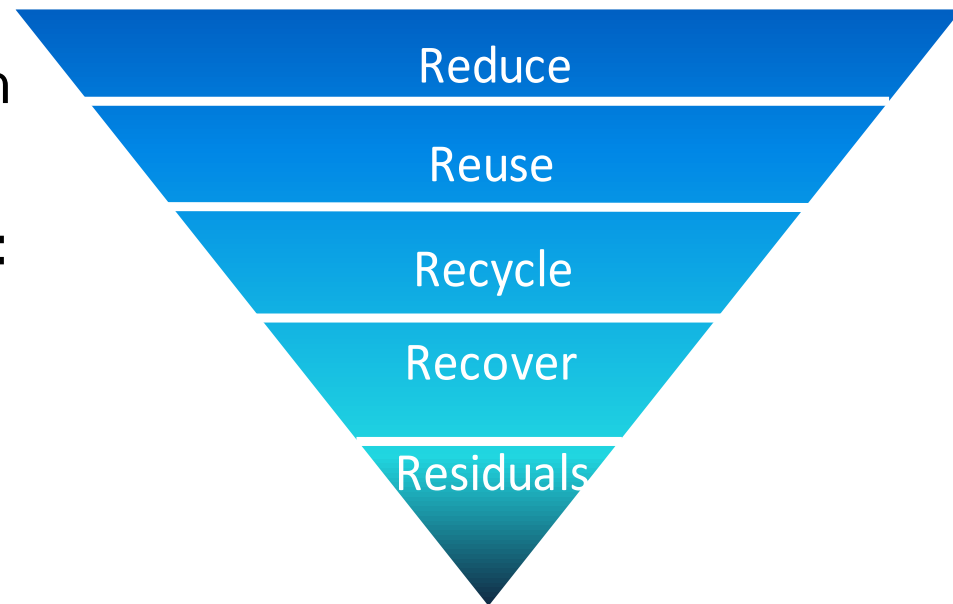
Goals

- Outline the future of recycling and garbage services in our city
- Cover all types of customers (i.e., residential, SFD, MFD, ICI, C&D, the City of Winnipeg corporation)
- Address the entire process – from collection to processing to disposal
- Reflect the vision of Winnipeggers by considering environmental, economic, and social factors

Garbage and Recycling Master Plan

Guiding Principles

- **Reducing and Reusing:**
preventing waste generation
- **Recycling and recovering:**
maximizing waste diversion
- **Residuals:**
minimizing disposal



Garbage and Recycling Master Plan

Key Recommendations

Reducing and Reusing

- **Promote waste minimization**
 - change behaviour through promotion and education
- **Promote community and backyard composting**
- **Encourage grasscycling**
- **Re-use initiatives**
 - Support community organizations that are outlets for re-use

Garbage and Recycling Master Plan

Key Recommendations

Recycling

- Increase recycling container capacity
 - from 60 litre blue box to 240 litre recycling cart
- Increase recycling processing capacity
 - short-term: upgrade current material recovery facility (MRF)
 - long-term: investigate model of future material recovery facility (MRF)

Garbage and Recycling Master Plan

Key Recommendations

Recovering

- Increase the composting capacity for yard waste at Brady
- Expand yard waste curbside collection city-wide, bi-weekly from April to November
- Implement a trial curbside collection program for household kitchen organics in select homes
- If successful, implement weekly city-wide curbside kitchen organics collection, as long as there is financial support
- Establish a kitchen waste composting facility to support curbside program

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Key Recommendations

Recovering (cont'd)

- Build up to four Community Resource Recovery Centres (4R Winnipeg Depots), where residents can drop off material that can be recycled, reused, composted, or sold
- Establish new opportunities to keep non-residential waste out of the landfill
 - multi-family dwellings
 - construction and demolition
 - institutional, commercial, and industrial
- Implement a waste diversion strategy for all City operations

Garbage and Recycling Master Plan

Key Recommendations

Residuals

- Garbage Collection
 - consistent residential garbage collection through automated carts
 - decrease from unlimited quantity to a 240 litre garbage cart
 - improve collection of large items, extra garbage bags, and abandoned waste
- Garbage Disposal (Brady Road Landfill)
 - new branding: Brady Road Resource Management Facility
 - change the focus from disposal to diversion
 - design and operational improvements through new Environment Act Licence
 - new diversion infrastructure - green park for private enterprise

Garbage and Recycling Master Plan

Key Recommendations

Administration

- Funding
 - waste diversion fee
- Admin resources
 - staffing, consultant services
- Education and promotion
 - community-based social marketing

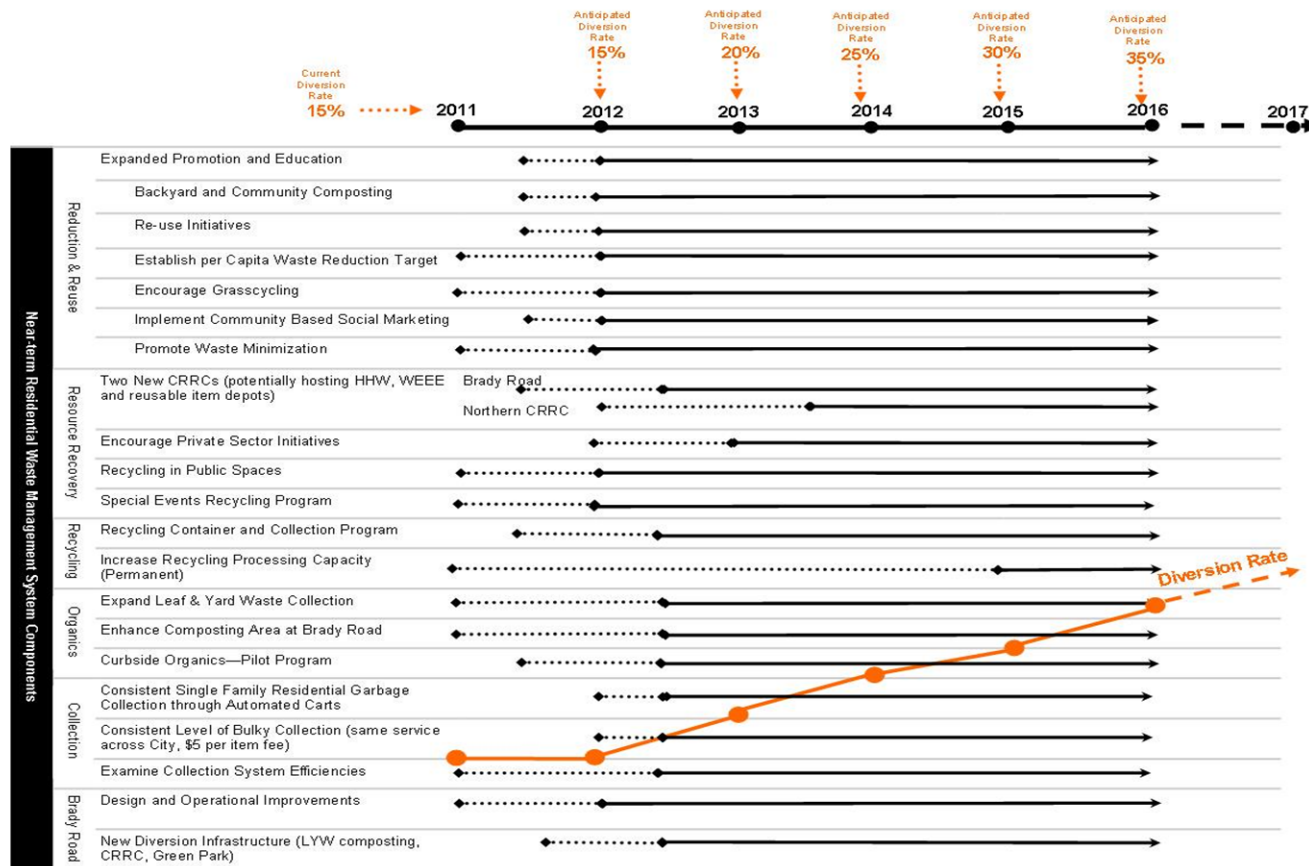
Garbage and Recycling Master Plan

Key Recommendations

- Near-term plan
 - expand promotion and education of waste diversion
 - introduce cost effective new programs or expand existing programs
- Long-term plan
 - promote waste minimization
 - expand re-use initiatives
 - garbage restrictions (e.g., bi-weekly collection, disposal bans)

Garbage and Recycling Master Plan

Near-term Plan

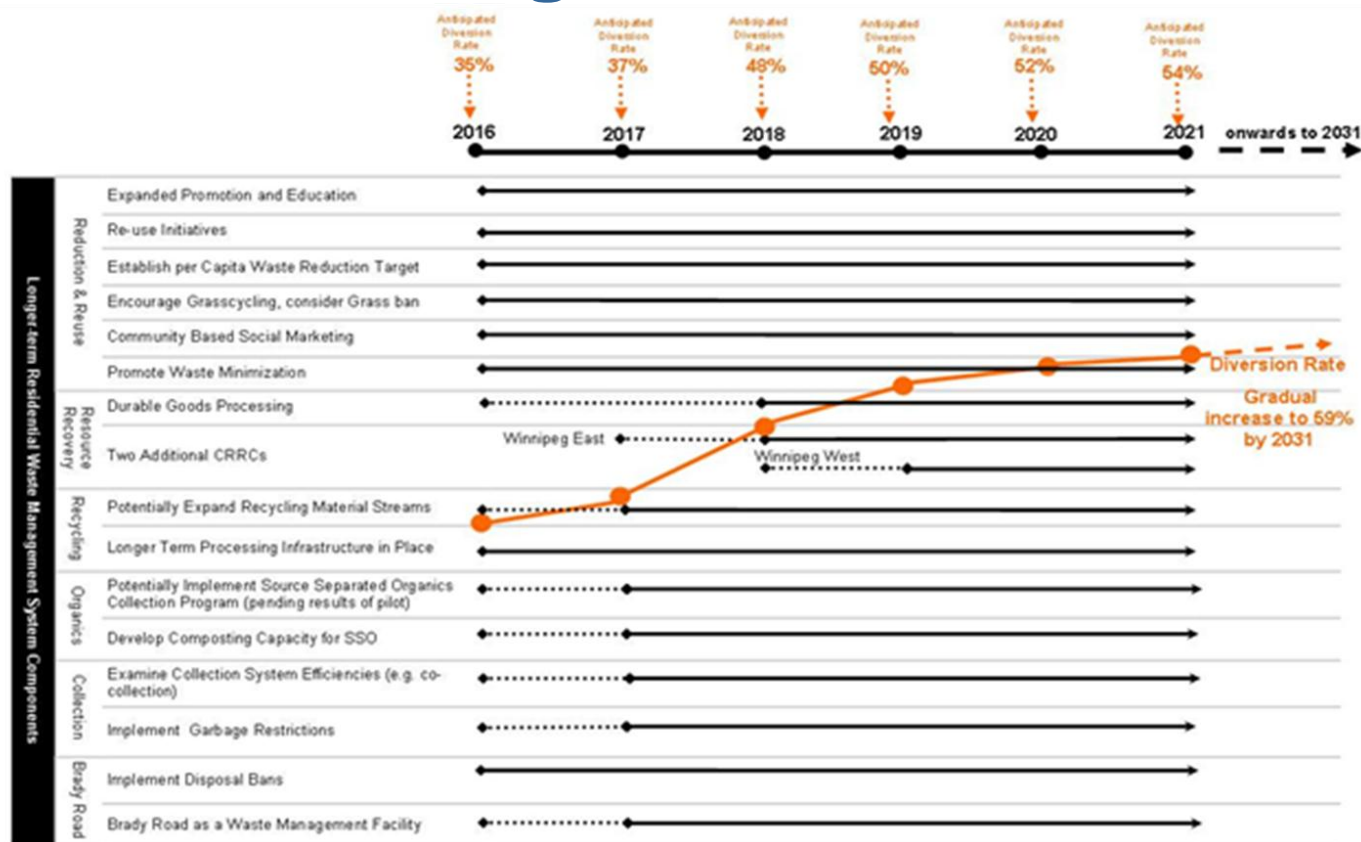


◆.....◆ Planning & Development Phase

◆————◆ Operational Phase

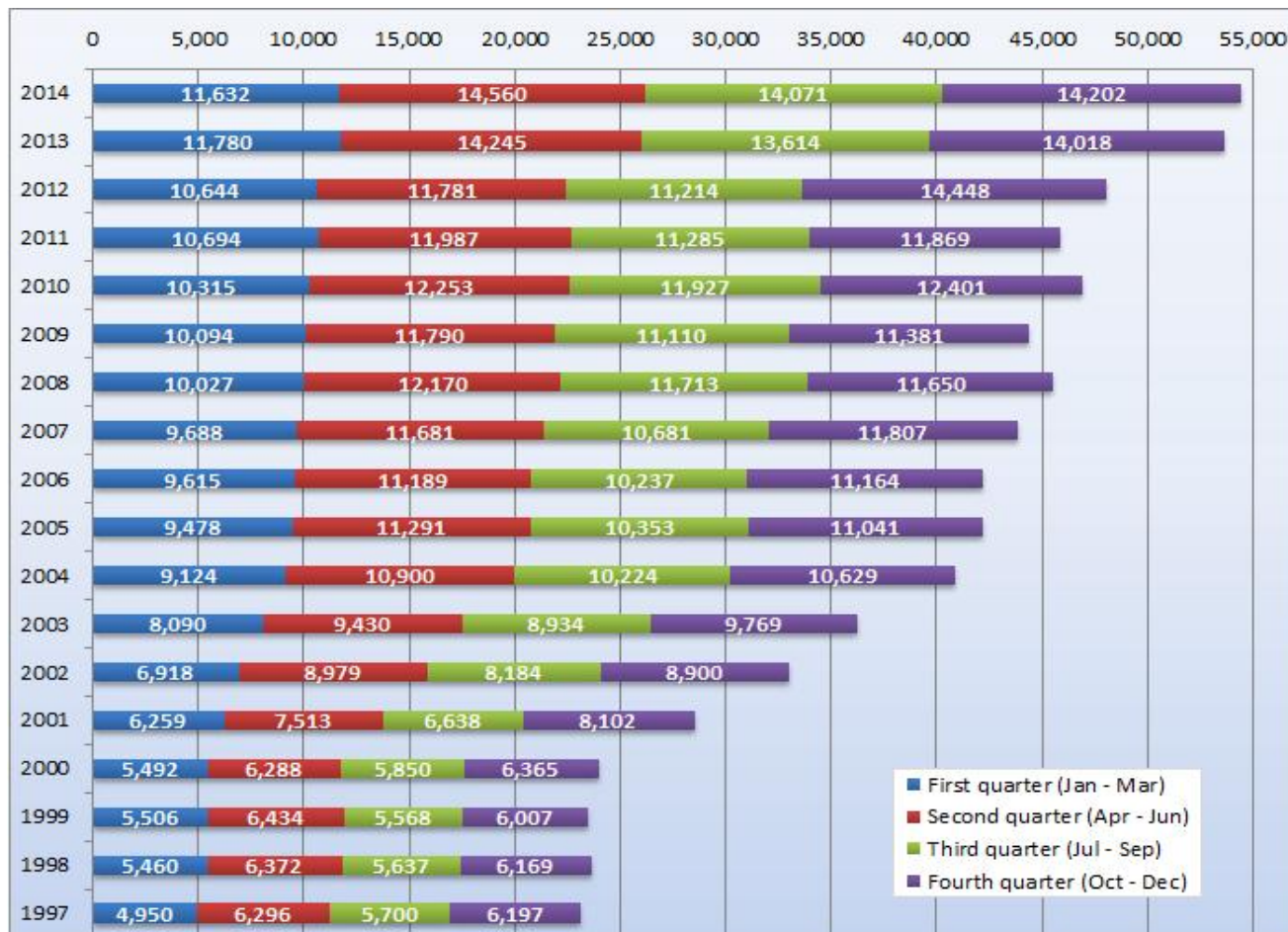
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Long-term Plan



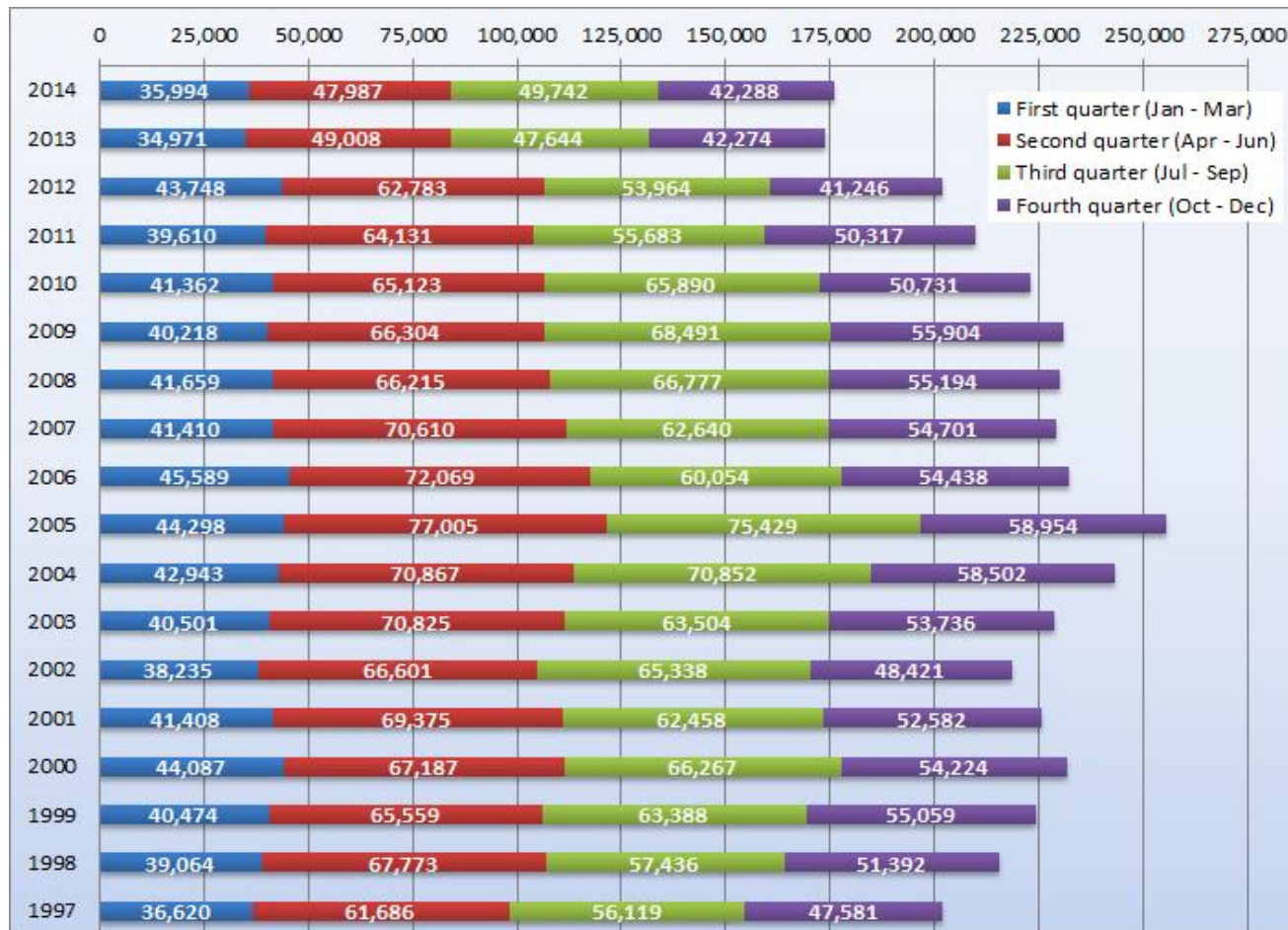
Program Accomplishments

Residential Recycling Tonnage



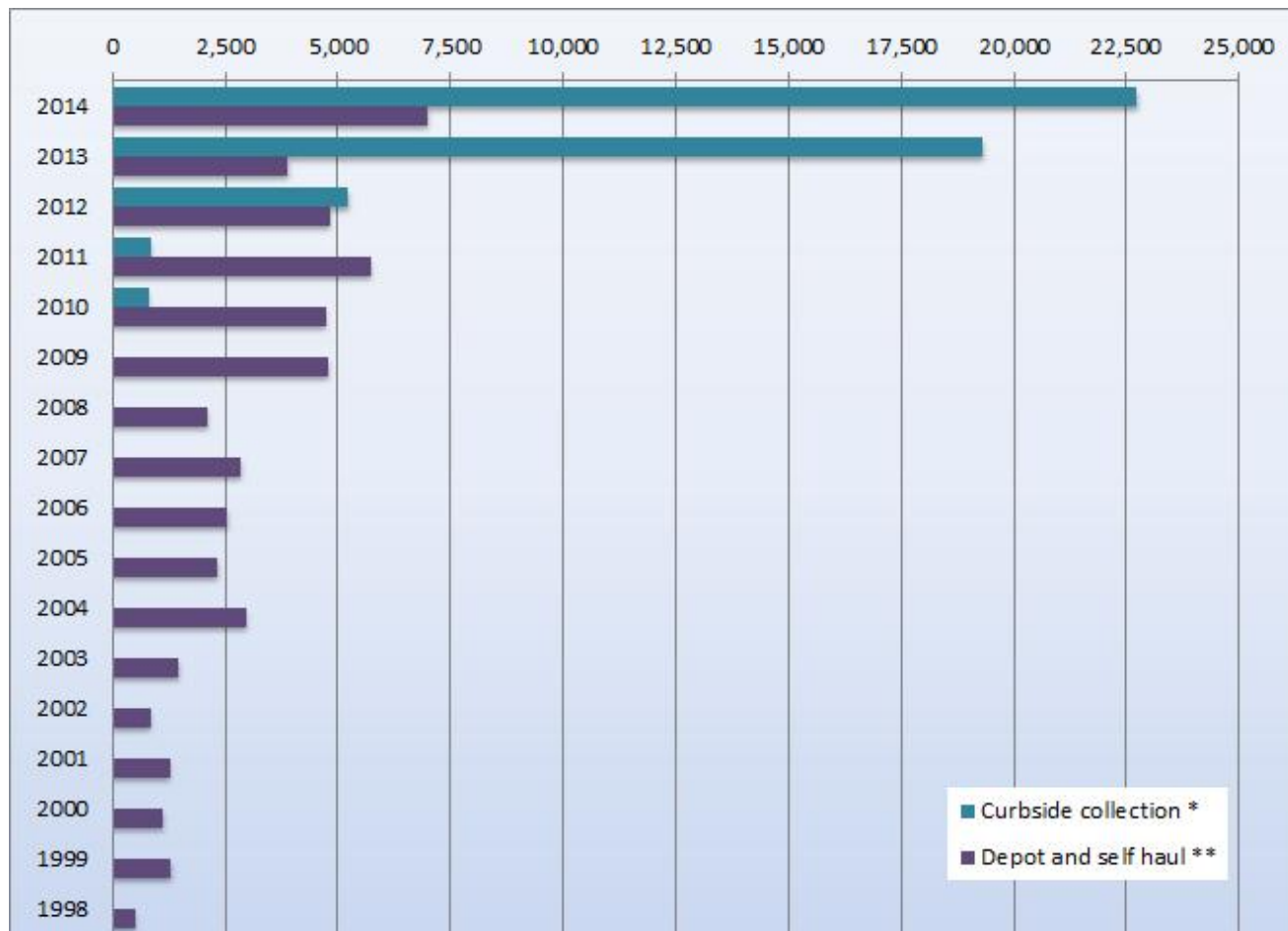
Program Accomplishments

Residential Garbage Tonnage



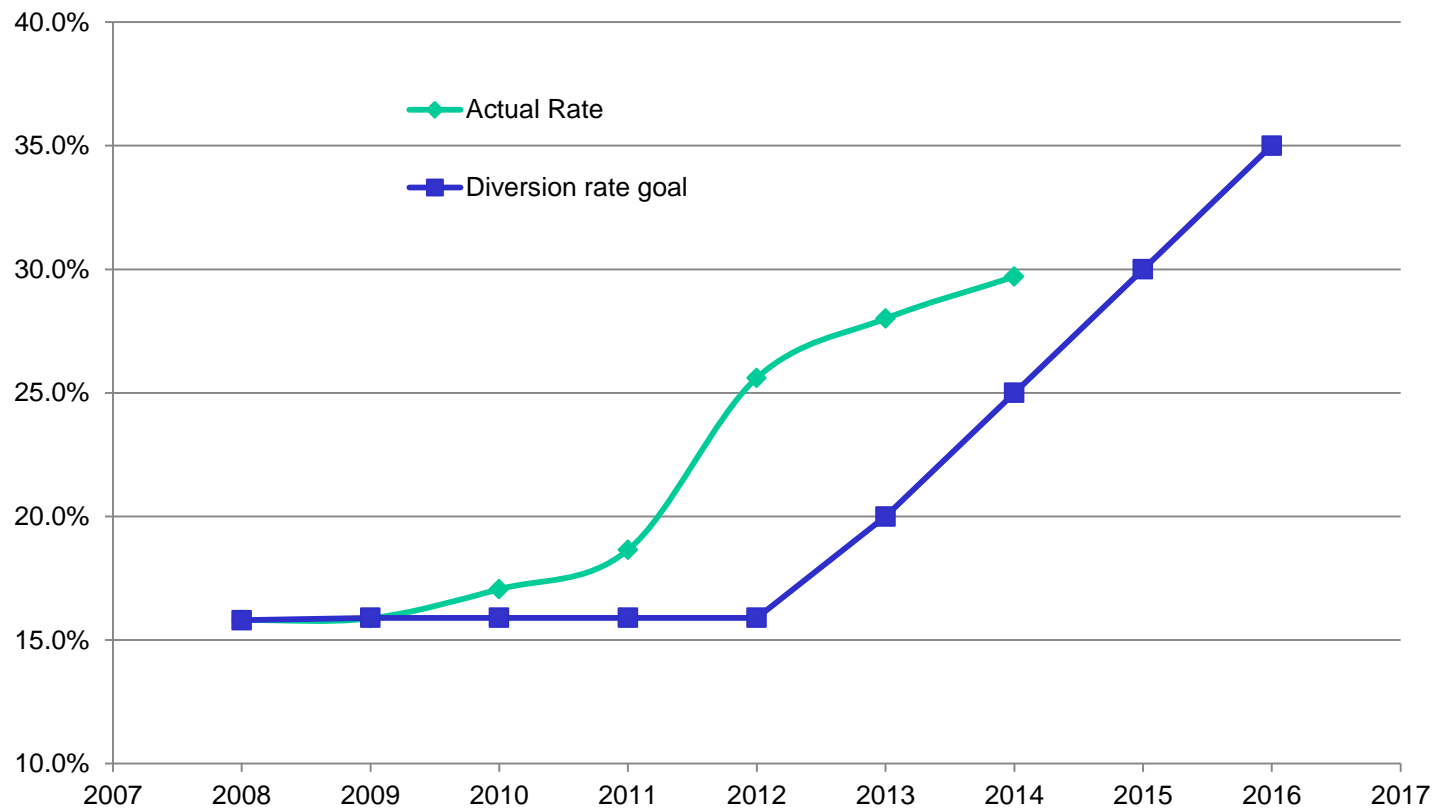
Program Accomplishments

Residential Yard Waste Tonnage



Program Accomplishments

Waste Diversion Rate



Program Accomplishments

4R Winnipeg Depots

- Opening of the first depot, located at the Brady Road Resource Management Facility, is expected in late summer 2015



- Detailed design continues on the second depot on Pacific Avenue (between McPhillips Street and Weston Street) with an expected opening in late summer 2016

Program Accomplishments

Landfill Gas Capture and Flaring System



- In 2014, the new landfill gas system captured and flared 4,200 tonnes of landfill gas, which is comparable to 109,740 tonnes of carbon dioxide
- This is equivalent to avoiding the carbon dioxide emissions of 23,046 passenger cars

Program Accomplishments

Yard Waste Composting

- A new, nine hectare composting pad was built to turn the leaf and yard waste into thousands of cubic metres of nutrient-rich compost



- In 2014, almost 30,000 metric tonnes of yard waste was composted on the new compost pad

Program Accomplishments

Pilot Biosolids Composting Complex

- Designed to compost about 20% of the biosolids produced
- Will produce over 300 cubic metres of compost per week, to be used as a final cover on the landfill to enhance vegetation growth



What's Next

Organics Diversion Strategy

- Comprehensive organic diversion programs have the largest impact on diversion rates, which would be necessary in order to reach the City's goal of 50% residential waste diversion
- Will identify a framework and potential options to manage all types of organic material from not only SFD but also MFD and commercial establishments
- Will provide an implementation plan identifying infrastructure, resources, markets for the end product and timelines
- Report to Council expected in early 2016

Questions?

