Agenda – Executive Policy Committee – June 18, 2024

Report – Standing Policy Committee on Water, Waste and Environment – May 31, 2024

Item No. 5 2023 Comprehensive Integrated Waste Management Strategy (CIWMS) Annual Report

STANDING COMMITTEE RECOMMENDATION:

On May 31, 2024, the Standing Policy Committee on Water, Waste and Environment concurred in the recommendation of the Winnipeg Public Service and submitted to Council:

1. That the report be received as information.

Agenda – Executive Policy Committee – June 18, 2024

Report – Standing Policy Committee on Water, Waste and Environment – May 31, 2024

DECISION MAKING HISTORY:

STANDING COMMITTEE RECOMMENDATION:

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1. That the report be received as information.

COUNCIL DECISION:

On June 20, 2019, Council concurred in the recommendation of the Standing Policy Committee on Water and Waste, Riverbank Management and the Environment and adopted the following:

1. That the Public Service report back to Council annually on the amount of residential waste created (generation) per capita, sent to a landfill (disposal) per capita, and recycled/composted/etc. (diverted) per capita as measures of performance.

2. That the Public Service develop a source separated organics pilot program and report back to Council with recommendations for the pilot project.

3. That the Public Service report back to Council by the third quarter of 2020 with a ten-year financial plan for the Solid Waste Utility, including recommendations for waste diversion programs.

4. That the development of the multi-family waste diversion fee be included with the ten-year financial plan (Recommendation 3).

5. That the 50% waste diversion target, as approved by Council on October 19, 2011, be deferred so that Public Service can recommend a revised waste diversion target after completion of the recommended source separated organics pilot program (Recommendation 2) and ten-year financial plan (Recommendation 3).

6. That the Proper Officers of the City be authorized to do all things necessary to implement the intent of the foregoing.

ADMINISTRATIVE REPORT

Title: 2023 Comprehensive Integrated Waste Management Strategy (CIWMS) Annual Report

Critical Path: Standing Policy Committee on Water, Waste and Environment – Executive Policy Committee – Council

AUTHORIZATION

Author	Department Head	CFO	CAO
M. Gordichuk, CCLP, Manager, Solid Waste Services	T. W. Shanks, M. Eng., P. Eng. Director, Water and Waste	N/A	M. Jack

EXECUTIVE SUMMARY

The Annual Report to Council summarizes the activities and financial results for 2023.

2023 was the 11th full year of implementation of the Comprehensive Integrated Waste Management Strategy (CIWMS) since beginning in the last half of 2012.

2023 program results include:

- decrease in the residential waste diversion rate to 27.6 percent;
- decrease to per capita residential waste generation of 6.5 percent;
- decrease to per capita residential garbage generation of 4.4 percent;
- decrease in the number of visits to 4R Winnipeg Depots by 1.3 percent;
- no change in the weight of materials managed at 4R Winnipeg Depots.

Overall, there was a decrease to the amount of waste managed in 2023 compared to 2022.

RECOMMENDATIONS

1. That this report be received as information.

REASON FOR THE REPORT

On October 19, 2011, Council approved the Comprehensive Integrated Waste Management Strategy (CIWMS). Recommendation No. 28 of the CIWMS requires: That the Winnipeg Public Service publish an annual report on the status of the Master Plan.

IMPLICATIONS OF THE RECOMMENDATIONS

There are no implications associated with the recommendation of the report.

HISTORY/DISCUSSION

In 2009, more than 283,000 tonnes of residential material were landfilled within the City of Winnipeg and 54,000 tonnes of residential material were recycled and composted. This resulted in a diversion rate of about 15 percent which was one of the lowest in Canada. At the same time, the Public Service was recommending changes to the garbage and recycling collection systems based on feedback from collectors, industry trends and other municipalities in North America.

As a result, in June 2010, Council directed the Public Service to create a waste diversion strategy in consultation with the public, to increase the waste diversion rate, explore options for material collection and provide uniform service for Winnipeg residents. Working with a consultant and through an extensive public engagement process, a made-for-Winnipeg plan was developed.

On October 19, 2011, Council approved the Comprehensive Integrated Waste Management Strategy (CIWMS) with the overall strategy to increase Winnipeg's diversion rate to 35 percent by 2016 and to greater than 50 percent by 2022 and thereafter. Implementation of the plan began in the last half of 2012, with 2013 being the first full year of the program.

OurWinnipeg 2045 identifies the need to carry out a comprehensive waste management strategy, to integrate and optimize the service level and efficiency of all facets of the solid waste management system, while minimizing environmental impacts. Winnipeg's Climate Action Plan and Community Energy Investment Roadmap further support actions to increase waste diversion efforts and minimize solid waste greenhouse gas emissions.

PROGRAM RESULTS – 2023

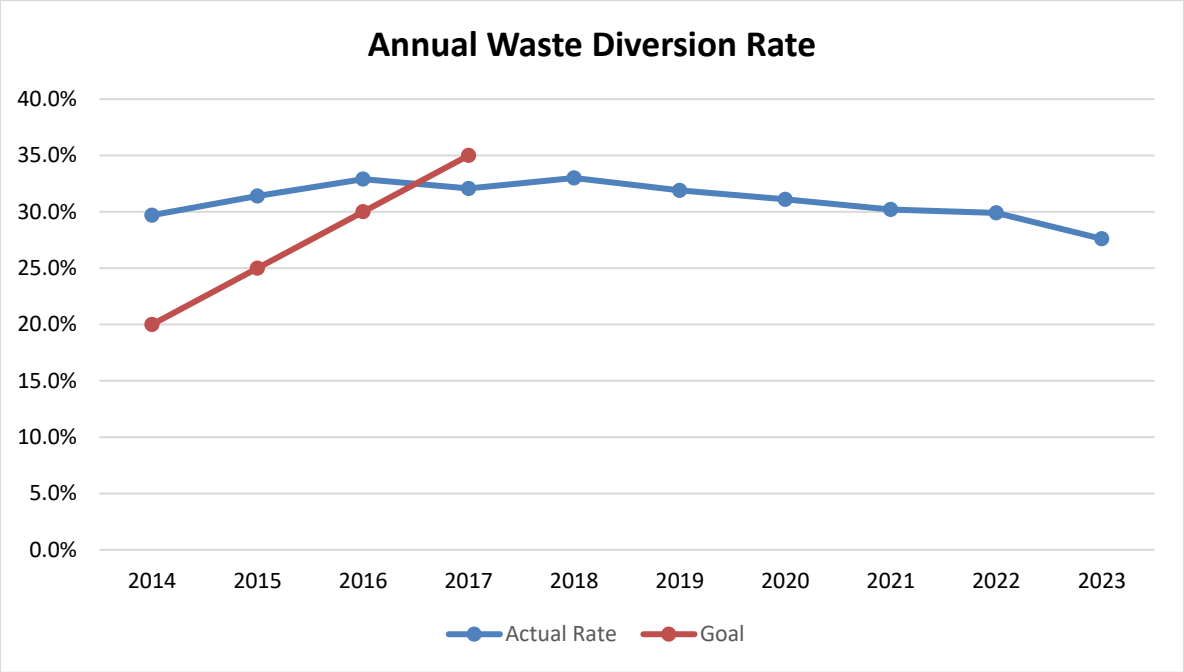
1. Residential Waste Diversion

The residential waste diversion rate decreased to 27.6 percent in 2023 from 29.9 percent in 2022.

The residential waste diversion rate is calculated as a percentage of the total diverted residential tonnage divided by the total residential tonnage of material landfilled and diverted. This aligns with the *Generally Accepted Principles for Calculating Municipal Solid Waste System Flow* manual, which is consistent with the methodology of the other cities that participate in Municipal Benchmarking Network Canada. The methodology reflects minor changes to the calculation of backyard composting, bottle deposit returns (beer bottles and cans), and residuals tonnages.

The following graph highlights the waste diversion goals established by CIWMS to 2016, as well as the actual rate for the past ten years (2014-2023). It highlights that diversion rates remain relatively stable and that the City has not reached its initial goal of a 35 percent diversion rate by

2016. Over the past five years (2019 to 2023), the average diversion rate has been 30.1 percent.



A significant increase to the waste diversion rate will not occur without the introduction of a city-wide Green Cart Program.

2. Waste Generation

Waste generation is an indicator of system performance and provides additional detail to the waste diversion rate. Measuring the tonnage of waste generated per capita is recognized as a key indicator of system performance by the Municipal Benchmarking Initiative Canada (MBNC), as it can more accurately reflect the variabilities of diversion programs, such as the continued light weighting of recyclable materials and natural variations in leaf and yard waste (LYW).

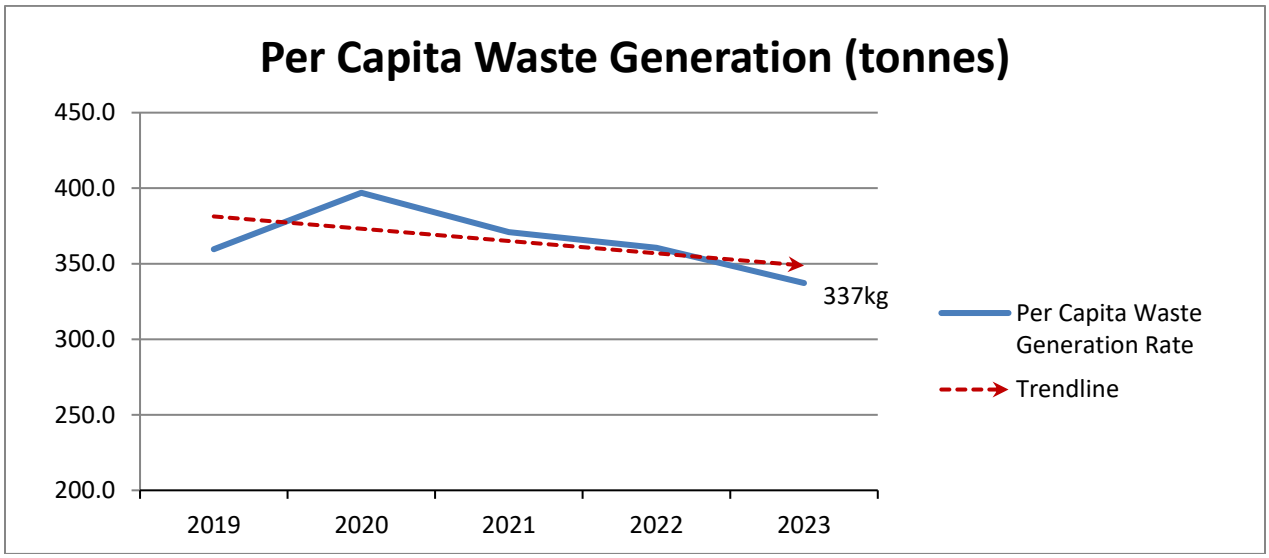
There was a decrease to residential waste generated in 2023 compared to 2022. In 2023, total residential waste generated was approximately 274,080 tonnes, compared to 282,280 tonnes in 2022, a decrease of 2.9 percent. During this time, Winnipeg's population grew from 783,096 people to a forecasted population of 791,600 people, an increase of one percent. As a result, in 2023, the per capita waste generation was approximately 337 kg, compared to 361 kg in 2022, a decrease of 6.5 percent.

The per capita garbage generation was approximately 238 kg, compared to 249 kg in 2022, for a decrease of 4.4 percent.

Residential Waste Managed by City of Winnipeg Programs per Capita (kg)

	2011	2022	2023	2023 vs 2022	2023 vs 2011
Population	677,800	783,096	791,600[1]	+1.1%	+16.8%
Garbage	309.4	249.4	238.4	-4.4%	-22.9%
Recycling	67.6	62.1	58.3	-6.2%	-13.8%
Leaf & Yard Waste Compost	13.5	42.3	33.9	-19.8%	+150.4%
4R Winnipeg Depots	N/A	6.7	6.7	0.0%	0.0%
Total Residential Waste Generated	390.6	360.5	337.2	-6.5%	-13.7%

The following graph illustrates the per capita waste generation rate over the past five years. It illustrates that since the height of the COVID-19 global pandemic (2020), per capita waste generation has steadily declined from 397 kg to 337 kg, by a rate of approximately 15 kg per year.



3. Recycling Program (Curbside and Recycling Depots)

The total weight of recyclable materials collected (from curbside residential blue cart collection and from recycling depots) and processed was 46,147 tonnes in 2023, a decrease of 5.2 percent from the 2022 weight of 48,658.

On a per capita basis, the weight of recyclable materials collected and processed for 2023 was 58.3 kg per person, a decrease of 6.2 percent from 2022. Specifically, the per capita weight of recyclable material collected at the curb decreased by 6.2 percent, and the per capita weight collected at depots decreased by 2.7 percent.

[1] Population 2023 is a forecast value

Known as the “evolving tonne,” the composition of recyclable materials continues to shift away from heavier and denser material (e.g. glass, metal, and newsprint) to lighter and bulkier material (e.g. plastic, corrugated cardboard). This trend emphasizes the importance of considering overall per capita waste generation in conjunction with recycling diversion rates (percentages) when evaluating overall performance of recycling programs.

Recyclable Material Processed

Year	**2023**	**2022**	**2021**	**2020**	**2019**
Tonnes	46,147	48,658	50,295	51,011	50,857

The five-year average for tonnes of recyclable material processed is 49,394. The 2023 results are 3,247 tonnes or approximately 6.6 percent below this average.

4. Leaf and Yard Waste Collection and Composting

In 2023, 26,851 tonnes of residential leaf and yard waste material was composted, a decrease of 6,282 tonnes from 2022, or 19 percent. Per capita, there was a 10.3 percent decrease for curbside collection and 45.1 percent decrease for self-haul over the period. Of note, leaf and yard waste (LYW) collection and composting numbers fluctuate from year to year due to weather conditions and other factors.

Collection and Self-Haul

Approximately 22,000 tonnes of LYW were collected curbside and over 5,000 tonnes were dropped off at the 4R Winnipeg Depots and the yard waste composting area at the Brady Road Resource Management Facility (BRRMF). An additional 14,710 tonnes of material were delivered from other public sources, including the City’s Retention Pond Weed Harvesting Program.

Composting

The amount of LYW composted every year fluctuates due to weather conditions and other factors. While 2022 was characterized by higher volumes of LYW, 2023 had lower volumes of LYW due in part to below average precipitation in southern Manitoba. In 2023, approximately 27,000 tonnes of LYW waste were composted at the BRRMF, a 19 percent decrease from 2022.

The finished compost meets the standards established by the *Compost Quality Alliance* and the *Canadian Council of Ministers of the Environment*. Compost is used as top dressing on finished areas of BRRMF and provided to other City departments or sold as surplus goods.

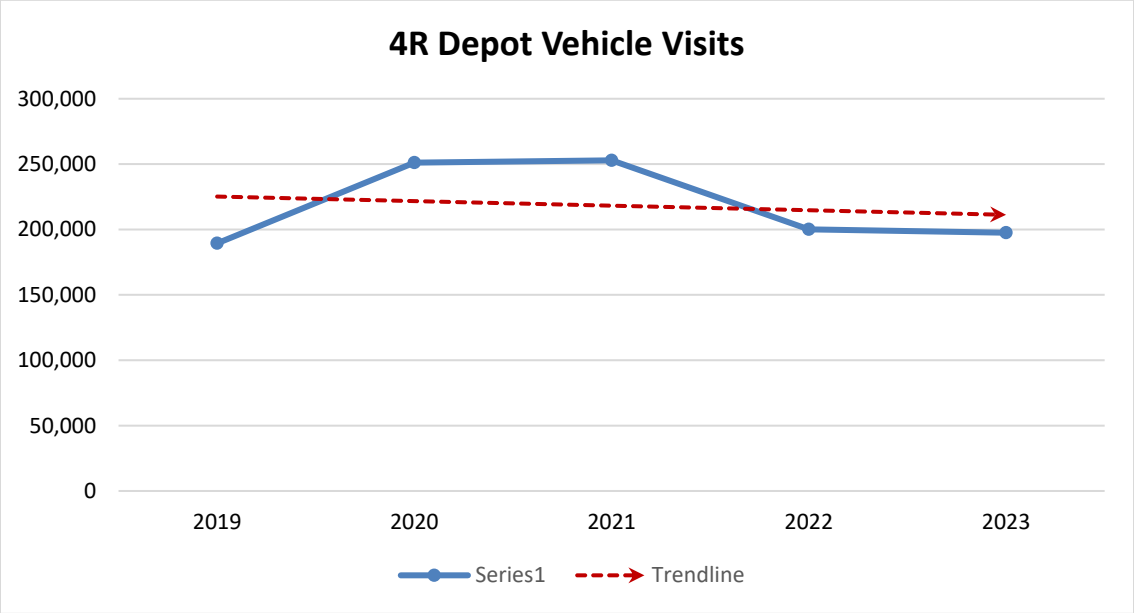
Approximately 8,840 cubic meters of compost was sold in 2023. An additional 1,227 cubic meters of compost was made available for pick-up by Winnipeg residents through a compost giveaway. In 2023, the compost giveaway took place at BRRMF, Kilcona Park, and Summit Landfill during May 12 to14 to coincide with Compost Awareness Week.

Leaf and Yard Waste Composted

Year	**2023**	**2022**	**2021**	**2020**	**2019**	**2018**	**2017**	**2016**	**2015**	**2014**
Tonnes	26,851	33,133	29,784	36,993	31,630	33,041	28,528	34,123	33,474	29,754

5. 4R Winnipeg Depots

Approximately 197,000 vehicles visited the three 4R depots in 2023, a decrease of 2,600 visits from 2022 (1.3 percent). The chart below illustrates a general trend of sustained usage over the past five years, with a significant spike during 2020 and 2021. It is assumed that the increase in visits in 2020 and 2021 is due to factors relating to the COVID-19 pandemic, with 2023 vehicle visits closer to pre-pandemic levels.



Combined, the Brady, Pacific and Panet 4R Winnipeg Depots managed 12,067 tonnes of material, an 11 percent decrease compared to 2022. Of the tonnes managed in 2023, 6,077 were diverted into recycling or composting programs. The remaining 5,990 tonnes consisted of clean fill[2] and concrete/ceramic which were used at BRRMF for daily operations.

Tonnes of Material Managed at 4R Winnipeg Depots

Material	2023	2022
Batteries	82	92
Bicycles	15	18
Ceramics and Concrete	2,423	2,265
Clean Fill	3,567	3,368
Electronics	560	611
HHW	519	569
Oil	160	149
Mattresses	300	308

Material	2023	2022
Glass	62	57
Lumber	45	20
LYW	2,533	4,157
Appliances	182	199
Recyclable Material	816	831[3]
Scrap Metal	601	620
Tires	202	259
Total	**12,067**	**13,523**

Notable, is the 39 percent decrease in LYW tonnages.

[2] Clean fill typically consists of clay or soil. These are materials that are not originally intended for disposal and therefore not considered diverted material.
[3] Number restated (from 80) to reflect tonnages from all 4R Depots. Since 2017, this table has presented tonnages from the Brady 4R Depot only. Going forward it will report tonnages from all 4R Depots.

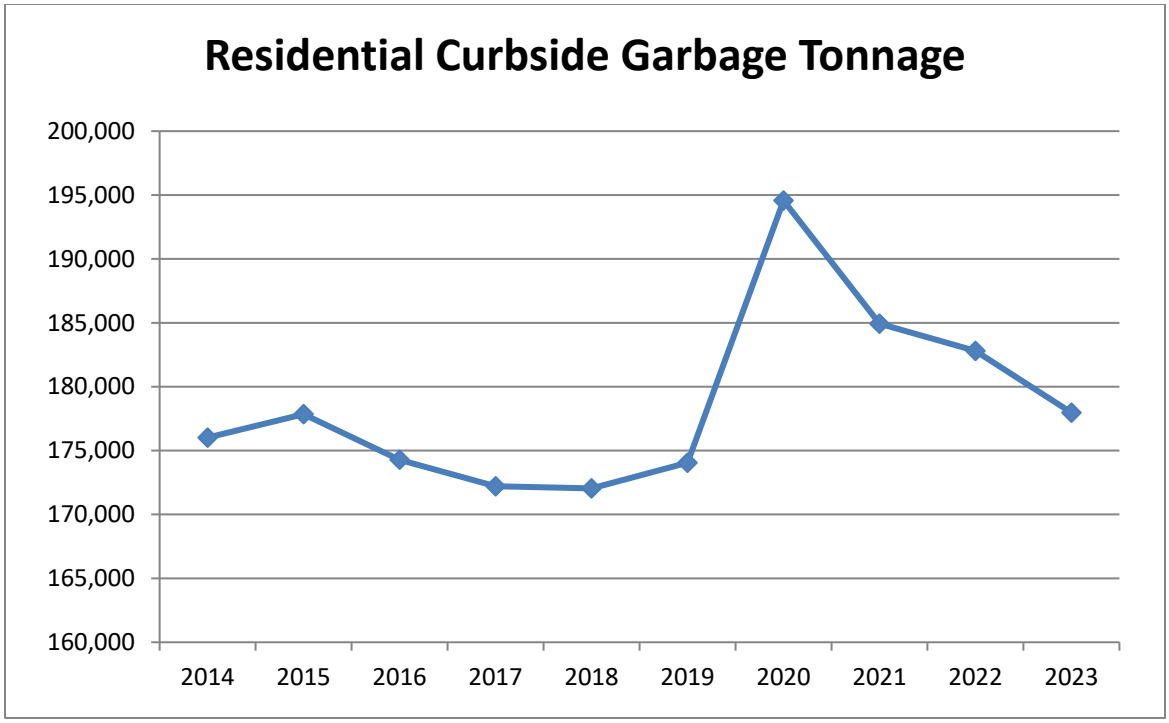
6. Residential Curbside Garbage Collection and Disposal

In 2023, the tonnage of residential garbage collected[4] at the curb and landfilled decreased by approximately 2.6 percent or 4,830 tonnes compared to 2022.

Residential Curbside Garbage Tonnage

Year	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Tonnes	177,967	182,800	184,930	194,570	174,050	172,041	172,209	174,280	177,845	176,011

As shown in the chart below, there has been a trend of declining garbage tonnages since a high of 194,570 in 2020. The 2023 tonnages are near the range of pre-pandemic levels, which averaged at 174,406 tonnes between 2014 and 2019.



Requests to 311 for Large Item Pickups remained stable with an increase of 2.6 percent in 2023 compared to 2022. Reports of Abandoned Waste remained stable with a 1.8 percent increase in 2023 compared to 2022, and the number of residents using the Extra Garbage Pickup service increased by 11.9 percent.

Requests to 311	2021	2022	2023
Abandoned Waste reports	556	159	162
Large Item pickup[5]	12,133	12,146	12,470
Extra Garbage pickup	324	462	512

7. Curbside Collection Performance

[4] Includes a small amount of waste from municipal facilities and small commercial generators
[5] Includes pickups of bulky waste and appliances with ozone depleting substances

Collection deficiencies decreased for garbage, recycling and LYW collection in 2023 compared to 2022, with an overall decrease of 5.8 percent. Collection deficiencies for garbage and recycling remained higher than the five-year rolling average (9,156), primarily due to the large number of properties awaiting cart replacement due to a servicing backlog. Occupants awaiting replacement carts are required to place their waste out in bags for manual collection rather than using their carts. Inconsistencies with how occupants set out bags for manual collection, in combination with the large number of properties using this method, made it challenging for contractors to ensure collections were completed correctly.

Collection	Approximate No. of Locations Collected Weekly	311 Reports of Missed Collection		
		2021	2022	2023
Garbage carts	211,866	6,433	13,921	12,052
Recycling carts	211,866	4,244	7,120	6,334
Yard waste (April to November)	105,933	1,672	2,010	1,686
Total		**12,349**	**21,312**	**20,072**

Note: The total number of reports of missed collection may not be a true indication of contractor performance and penalties. For example, upon investigation by either the City or the contractor, a number of complaints registered as missed collection show:

- there was a valid reason why collection did not occur
- the call should have been recorded as a different type of service request.

8. Organic Waste Processing Facility - Planning Study

An options analysis and cost estimate was completed for a potential future organic waste processing facility that will be required for a city-wide green cart program. In October 2023, the Public Service presented the results of the Residential Food Waste Collection Pilot Project, and proposed a program for city-wide green cart service. This included a proposed timeline and approach for procuring organic waste processing services in support of that program. Council approved the development of a city-wide green cart program for single-family residential dwelling units, where residential food waste is processed at a merchant facility**.**

9. Landfill Gas Capture/Green House Gas Reduction

In its 10th full year of operation, the landfill gas (LFG) system at the BRRMF captured and flared 13 million cubic metres of gas, which resulted in a GHG reduction equivalent of 97,515 tonnes of carbon dioxide. This amount is equivalent to avoiding the annual carbon dioxide emissions of 21,700 passenger cars[6], a 37 percent increase in carbon dioxide equivalent avoided compared to 2022 (70,977 tonnes). Of note, the volume and make up of LFG varies each year depending on the profile of solid waste disposed and other factors.

[6] Based on USA Environmental Protection Agency Greenhouse Gas Equivalencies Calculator

10. Public Engagement

The Community Liaison Committee for the Brady Road Resource Management Facility (BRRMF) was established in 2014 as part of the requirements of the new Environment Act Licence. Two Committee meetings were held in 2023: on April 25 and November 1. Committee members received a tour of BRRMF, as well as updates and provided comment on:

- The review of the Comprehensive Integrated Waste Management Strategy (CIWMS);
- Landscaping activities on finished areas of the landfill and Administration building;
- Noise and odour considerations;
- Vector management;
- Ways to reduce the impact of landfill activities (e.g., construction, operations) on the local environment;
- New cell construction.

The Waste Diversion Advisory Committee did not meet in 2023.

11. Biosolids Soil Fabrication

The 2018-2020 Biosolids Soil Fabrication Pilot Project examined the viability of utilizing biosolids and other residuals generated from City operations, primarily wood waste and street sweepings, to fabricate topsoil to complete the cap system at Summit Landfill. Solid Waste Services submitted an Environment Act licence proposal for an ongoing biosolids soil fabrication program in 2020. The pilot project was given a third year of extension while the application is under review. In 2023, 32,832 tonnes of biosolids were used to make soil as part of this initiative at Summit Landfill. An additional 4,418 tonnes of biosolids were used for soil fabrication at BRRMF. This project, combined with the City's Biosolids Land Application program, helped ensure that no biosolids were landfilled in 2023.

12. Financial Results

Council's adoption of the CIWMS included the introduction of the annual Waste Diversion Fee. Effective January 1, 2023, this fee was charged at an annual rate of $69.46 (January 1, 2022 was $67.31) per dwelling unit to residential properties (properties with seven or fewer dwellings as defined by the Solid Waste By-law). These monies are used to fund waste diversion programs.

The total revenue collected in 2023 was $14.6 million, comparable to $14.1 million in 2022.

Operating costs for garbage and recycling collection and processing have increased as a result of contractual price adjustments.

Operating Cost Highlights

Contract Costs (in Millions)	2023	2022	2021
Garbage Cart Collection	$12.6M	$11.3M	$11.2M
Recycling Cart Collection	$13.5M	$12.2M	$12.3M
Recyclable Material Processing	$8.0M	$7.2M	$7.5M
Leaf and Yard Waste Collection	$3.0M	$3.0M	$2.6M
Leaf and Yard Waste Composting	$0.4M	$0.4M	$0.6M

Processing and Marketing of Recyclable Material
2023 was the fourth full year of operations for the new materials recovery facility (MRF). A variety of factors including technological, contractual and operational improvements have provided the current MRF with the ability to adapt to fluctuating global recycling markets. Overall, the MRF has significantly enhanced processing and marketing performance; however, with continued fluctuations in global recycling markets for paper and plastics, enhanced by the changes in supply and demand transitioning from the COVID-19 pandemic, more historic values have settled back in causing revenues to decrease to $5.527 million in 2023 compared to $9.247 million in 2022, a 40 percent decrease.

Carts
The department spent approximately $1.7 million for the purchase of garbage and recycling carts for new housing developments and for the replacement of damaged carts. This amount increased by 42 percent in 2023 compared to 2022 ($1.2 million) due to a rise in the number of damaged carts and overall higher costs of carts due to supply chain issues and other factors.

Waste Diversion Reserve Fund
As of December 31, 2023, the balance in the Waste Diversion Reserve was $16.819 million. The balance of the Waste Diversion Reserve will be used towards funding waste diversion initiatives. There was no transfer to the reserve in 2023 ($6.7 million in 2022). This was a result of higher costs of the recycling and waste diversion programs offset by lower recycling revenue.

CAPITAL COSTS

Organics Waste Processing Facility - Planning Study
In 2023 an options analysis and cost estimate was completed for a future organic waste processing facility that will be required for a city-wide green cart program. Among other things, this included the development of a program schedule and approach for procuring organic waste processing services. This study was completed on time and on budget.

Multi-Family Diversion Strategy
In July 2023, Council approved the Multi-Family Waste Diversion and Management Strategy. This study was completed within budget.

BRRMF Cell Design and Construction
A new disposal cell, complete with leachate collection system (Cell 34), was constructed in 2023 (Tender 627-2022) at a cost of $2.8 million. Waste disposal in the cell commenced in December 2023, and designed for a capacity of three years of waste disposal.

13. 2024 Implementation Plan

Multi-Family Waste Diversion and Management Strategy
To implement the Council approved strategy, a new, permanent WAPSO X3 Full Time Equivalent (Waste Diversion Specialist) will be hired in 2024 to expand education and outreach to multi-unit properties on solid waste programs, conduct site visits to assess recycling programs, work with community partners, finalize solid waste design guidelines, and support new waste diversion policies.

Green Cart Program
RFP 895-2023 will be awarded to procure professional consulting services for the development of an organic waste processing services. Among other things, this includes procurement support services, including market sounding, Request for Quote (RFQ) and Request for Proposal (RFP) development and contract administration/project management services. Additionally, the Public Service will identify possible interim green cart service options in advance of a city-wide program.

Landfill Gas Beneficial Use - Alternative Energy Project
As per March 24, 2022, Council direction, the Public Service commenced negotiations with Integrated Gas Recovery Services Inc. (IGRS) to become a raw resource landfill gas supplier on a 20-year term. In 2024, the Public Service will continue to work with IGRS and consult with other stakeholders to develop a renewable natural gas production facility from BRRMF landfill gas.

Comprehensive Integrated Waste Management Strategy – Five-Year Review (2023)
RFP 262-2023 to review the Comprehensive Integrated Waste Management Strategy is underway, with half the work completed. The project includes a review of the goals and recommended options, data collection (i.e. waste audits), and public engagement. It is anticipated that the project will be completed in Q4 2024 on time and on budget, and will result in an updated CIWMS and companion short-term implementation plan for Council approval.

Biosolids Soil Fabrication Pilot Project
Year seven of the Biosolids Soil Fabrication Pilot Project will take place in 2024. The continuation of the pilot project will include the all-season fabrication of soil to supplement City landfill requirements cover to support a vegetative layer. Operations include ongoing environmental monitoring and daily site management. Planned, regular drone flights will map out plotted areas and help track the site coverage more closely.

BRRMF New Landfill Area
In preparation for the closure of Area A of the BRRMF landfill in 2026, an RFP for the design of a new Area B will be tendered and awarded. The RFP is for the design of the first four cells, and includes an excavation plan, sequencing plan, fill plan and recommendations for surface water management/drainage, roadways and infrastructure for all of Area B. It is anticipated that cell 35 and 36 will be constructed by 2025 to be ready for fill in 2026.

Food Waste Reduction Project
Year four of a food waste reduction project will be carried out in partnership with the Winnipeg Food Council. It will include advisements, promotions and attendance at summer farmer's markets to educate residents on ways to decrease food waste and reduce the amount of food that goes to landfill.

Solid Waste Financial Plan
Water and Waste will report back to Council by the end of 2024, with a sustainable financial model with cost recovery of Solid Waste Collection, Disposal, Recycling and Waste Diversion.

Operational System Improvements
Improvements to data tracking will continue to be made through upgrades to the collections tracking software system.

Communication Strategy
The City will continue to use a multi-pronged approach to communicate its solid waste programs and services, as well as its waste reduction/diversion efforts. Examples of different communication activities include:

- Providing new single-family dwellings with a reusable bag which contains an information package on new collection services.
- Continued public education through social and traditional media (newspaper, radio ads, community newsletters).

FINANCIAL IMPACT

Financial Impact Statement

Date: April 4, 2024

Project Name:

2023 COMPREHENSIVE INTEGRATED WASTE MANAGEMENT STRATEGY (CIWMS) ANNUAL REPORT

COMMENTS:

There is no financial impact based on the recommendations in this report.

Lucy Szkwarek, CPA, CGA

Lucy Szkwarek, CPA, CGA
Manager of Finance and Administration

CONSULTATION

This Report has been prepared in consultation with:

N/A

OURWINNIPEG 2045 POLICY ALIGNMENT

This report is in accordance with the OurWinnipeg policies through

OurWinnipeg Goal: Environmental Resilience

Objectives:

- Minimize and divert waste from landfill.

Policies:

2.15 Circular Economy

- Advance Winnipeg's circular economy to support waste reduction.

2.16 Waste Minimization

- Improve and sustain performance of the waste reduction and diversion system.

OurWinnipeg Goal: Social Equity

Objectives:

- Build social cohesion through community development solutions, coordinated, effective partnerships, and responsive service delivery. Learn from community knowledge and leadership, work to be responsive to community needs, and align government processes, resources and services accordingly

Policies:

5.1 Equitable Service Access

- Provide municipal services through a lens that promotes equitable access for all, with a focus on the youngest, oldest, and systemically disadvantaged members of the community.

WINNIPEG CLIMATE ACTION PLAN ALIGNMENT

This report is in accordance with Winnipeg's Climate Action Plan through Strategic Opportunity #6 Waste Reduction and Diversion, and supports the following key directions:

6.1 Reduce Consumption and Increase Waste Diversion from Residential, Commercial and Industry.
6.2 Advance Winnipeg's Circular Economy to Support Waste Reduction.

6.3 Utilize Biosolids In Agriculture and Landscaping Industries.
6.4 Support Integrated Resource Recovery Opportunities.

WINNIPEG POVERTY REDUCTION STRATEGY ALIGNMENT

Waste management services are provided to all Winnipeggers, in an equitable, inclusive and accessible manner, which reflects Goal 6 of the Winnipeg Poverty Reduction Strategy - All City Services are Equitable, Inclusive and Accessible.

SUBMITTED BY

Department: Water and Waste
Division: Solid Waste Services
Prepared by: Richard Bolton, MNRM; Melissa Bunkowsky, CPA, CGA
Date: May 8, 2024
File No.: G-101