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# MANAGEMENT MASTER PLAN UPDATE



***PREPARED BY CAMBIUM INC.***

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## Executive Summary

A Waste Management Master Plan (WMMP) was developed for the County of Peterborough in 2012 to achieve its goal of 60% diversion from landfill. The WMMP included objectives to optimize service delivery, implement best practices, and expand outreach, related to waste management programs. The 5-year WMMP Update aims to refine these objectives by incorporating the latest industry advancements, addressing emerging challenges, and enhancing community engagement. This update ensures that the WMMP remains a dynamic and effective tool, driving continuous improvement in waste management practices and fostering a sustainable future for the County of Peterborough.

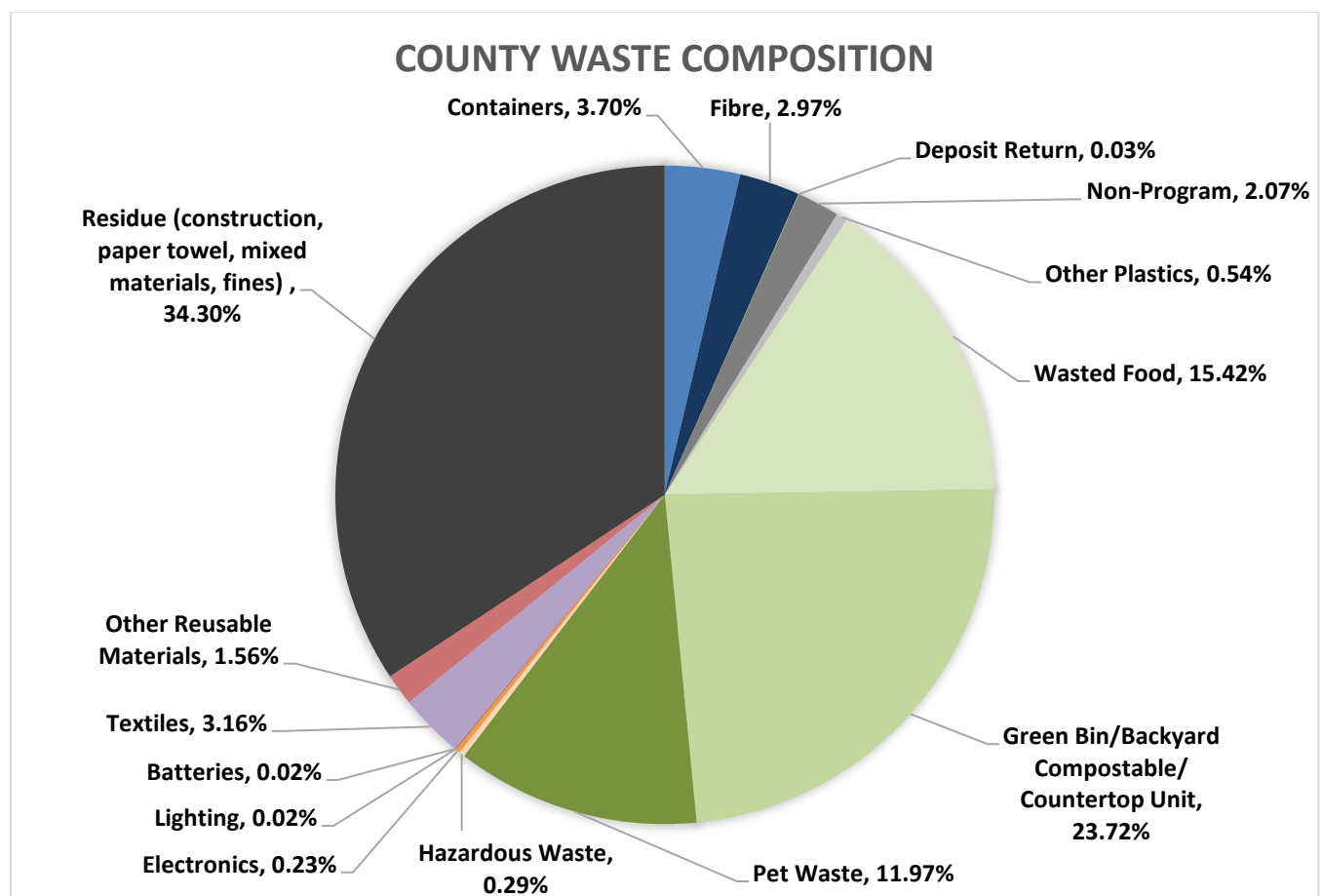
Although the County has been successful in implementing a number of these objectives outlined by the WMMP, there have been changes and challenges presented in recent years that require an update to the existing WMMP. The population is steadily increasing and despite overall waste generation going down, the County must continue providing sufficient options for diversion to not only reach their goal of a 60% diversion rate, but to limit waste going to the Peterborough County City Waste Management Facility (PCCWMF). With the transition of the Blue Box program, diversion rates will be more difficult to measure, increasing the need for alternative methods to determine diversion. Additionally, the inclusion of circular economy principles is becoming increasingly more important at a municipal level to promote overall waste reduction by optimizing the life cycle of products.

Cambium Inc. (Cambium) was retained by the County to complete a detailed analysis of their current waste management practices and collect waste composition data to update the current WMMP and create a five-year implementation plan to reduce overall waste generation and diversion from the landfill.

Through consultation with all eight County Townships, Curve Lake First Nation, the Waste Management Committee, and the public, information was gathered to guide the option development process. Some of the main outcomes from the consultation with the Townships included the standardization of training, tipping fees, contracts with common contractors, public education programs, introduction of programs to support the diversion of other materials like

boat and bale wrap, increasing level of service related to leaf and yard waste collection, and a general increase of promotion and education of existing programs. The public offered valuable input related to current waste management practices, most notably the high rate of organics disposal into the garbage. Additionally, the support for a curbside organics program was high. There was also interest from the public in expanding options for reuse and sharing services, development of programs for polystyrene and bulky plastics diversion, as well as an increase in promotion and education surrounding existing programs.

Waste audits were completed in all eight Townships which allowed Cambium to analyze the current waste composition. The overall results from the audit are graphically shown in the pie chart below.



Initiatives were developed for the County considering existing programs as well as additional options for further diversion opportunities. There were eight key programs Cambium assessed

including non-eligible source Blue Box material management, leaf and yard program, mattress program, reuse and sharing programs, waste reduction programs, food organics waste management, textile diversion opportunities, and other diversion opportunities. Within these categories, options were developed to address the needs of the community, ranging from potential new programs to maintaining existing programs and considered various factors including cost, potential diversion from landfill, feasibility, and perceived stakeholder acceptance. The options were then evaluated based on these factors to determine which programs to carry forward.

Through the implementation of these options, the County can achieve their objectives of streamlining diversion programs, developing new initiatives and ideas, increasing education and training programs, achieve outstanding 2012 WMMP objectives, implementing circular economy initiatives and continue providing NES collection options.

The recommended implementation plan identifies 11 options to support the five-year WMMP update. Key Performance Indicators (KPIs) are identified for each recommended option and continued programs. The KPIs identify measurable variables associated with each option.

Public and stakeholder communication and engagement strategy recommendations are identified to promote the 11 program options and continued programs in Appendix A. Various recommendations were developed to guide promotion and education decisions including communication tactics, distribution timelines, and estimated budget. Evaluation tools identified will help assess communication and engagement. The WMMP Update is a living document used to implement and support waste diversion initiatives for the County to be reviewed annually and updated as required.

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