

# **Hazardous Waste Program**

## **Waste Management Services**

**Public Works Committee**  
**April 4, 2023**

**Emil Prpic, Associate Director Waste Disposal Operations & Engineering**

# Terminology

- HHW – Household Hazardous Waste
- MHSW – Municipal Hazardous and Special Waste
- HSP – Hazardous and Special Products

# History of Steward Program

- HHW has been collected in Ontario since the early 1990's
- Municipalities fully funded HHW program until the late 2000s
- 2006 - Ontario Minister of the Environment directed Waste Diversion Ontario to develop a waste diversion program for MHSW, with Stewardship Ontario overseeing the program.
- 2021 - HSP Regulation took effect October 1, 2021 requiring Producers to be responsible for end of life cost for the materials HSP designated materials.
- Main HSP Producer Responsibility Organizations (PROs)
  - Automotive Stewardship (AMS)
  - Product Care Association (PCA)
  - Ryse Solutions

# HSP Regulation and Funding Issues

## Designated Materials

- Identifies which materials are included as part of the Regulation

## Collection of Designated Materials

- Sets out collection site requirements based on size of Producer and municipal population

## Recycling Targets

- Lack minimum recycling target. Targets limited to number of collection sites.

## Funding

- Funding formula unspecified in Regulation

# HSP Regulation Material Categories

Category "A" Products	Category "B" Products	Category "C" Products	Category "D" Products	Category "E" Products	Light Bulbs
<ul style="list-style-type: none"> <li>• Non-refillable pressurized containers</li> <li>• Oil filters</li> </ul>	<ul style="list-style-type: none"> <li>• Antifreeze</li> <li>• Oil containers</li> <li>• Paints and coatings</li> <li>• Pesticides</li> <li>• Refillable pressurized containers</li> <li>• Solvents</li> </ul>	<ul style="list-style-type: none"> <li>• Barometers</li> <li>• Thermometers</li> <li>• Thermostats</li> </ul>	<ul style="list-style-type: none"> <li>• Fertilizers</li> </ul>	<ul style="list-style-type: none"> <li>• Propane Cylinders</li> </ul>	<p><i>(moved to the Electronic Regulations and took effect Jan 1, 2023)</i></p> <ul style="list-style-type: none"> <li>• Fluorescent Tubes</li> <li>• Compact Fluorescent</li> <li>• Halide Bulbs</li> </ul>

Items Niagara Region Pays		
<ul style="list-style-type: none"> <li>• Acids</li> <li>• Bases (Caustic)</li> <li>• Cooking Oil</li> <li>• Expanding Foams</li> <li>• Fire Extinguishers</li> </ul>	<ul style="list-style-type: none"> <li>• Fertilizers</li> <li>• Organic Peroxide</li> <li>• Pharmaceuticals</li> <li>• Sharps</li> <li>• Used Oil</li> </ul>	<ul style="list-style-type: none"> <li>• Vehicle Batteries</li> </ul>

# Number of Collection Sites

- Producers are categorized as small or large based on the number of tonnes put into the marketplace.
- Minimum number of collection sites varies for small and large Producers.
- The number of sites required in Niagara region for large Producers is based on LAM populations

## Issues

- Accessibility targets are difficult to define for compliance/enforcement as producers can supplement sites with events and incorporate return to retail sites.
- Require residents to travel to more collection sites
- Return to Retail sites may fluctuate
- Lack of service providers

# Recycling Targets

- Regulation only specifies a minimum number of collection sites.
- No mandatory requirement for overall recycling; management targets/recycling targets are critical to drive collection of materials by producers.
- Other EPR program have established targets

- Batteries

- 2022 - 40%
- 2023 - 40%
- 2024 - 45%
- 2025 - 50%



- Electronics

- 2022 - 55%
- 2023 - 60%
- 2024 - 65%
- 2025 - 70%



- Tires

- 85% of tires must be recycled



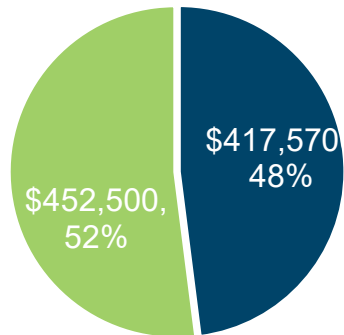
# Current Funding vs. Proposed Funding - Product Care Association

- Current funding agreement with PCA is based on the hours of HHW depot operation.
- PCA indicated a change in the compensation model from an hourly rate to quantity (weight) basis.
  - No CPI since 2015, offered 4% CPI as part of new agreement
- PCA met with Niagara Region staff in December to describe the proposed quantity-based funding model.
- Niagara Region is negotiating a new agreement with PCA.
- Risk to Niagara Region - Volume Fluctuation
  - For PCA to meet the requirements for the HSP regulations, additional collections sites/events will be required, potentially reducing the collection volume at Niagara Region HHW depot sites, which may impact funding.

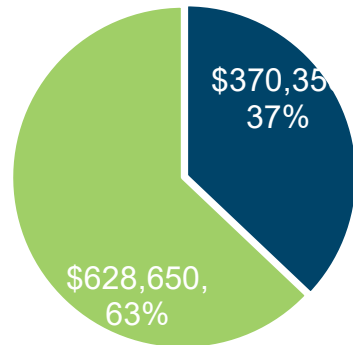


# Financial Concerns

2023 Budget - \$870,000  
Cost vs. Funding



2023 anticipated cost incl. new tender prices & PCA proposed funding - \$999,000



■ Producer Responsibility Funding Programs

## Cost Drivers

- PCA is proposing funding based on the volume collected in 2021.
  - Niagara Region would receive approximately \$47,000 less funding in 2023 than in 2022.
- New tender issued fall of 2022, for Operations, Haulage and Processing
  - 44% contract increase
- Management of non-designated materials
  - Regulation does not include all materials resulting \$628,000 being paid by residents

# Other Financial Impacts

## Increased Costs

- Expanding Foam – no longer funded under the new HSP regulation – estimated annual cost to Niagara Region \$28,500
- Used Oil - not part of HSP Regulation and no longer generates revenue since COVID
  - Niagara Region is paying to recycle it - estimated cost of \$45,000 per year
- New contract took effect on January 1, 2023 for HHW depot operations, haulage and processing of MHSW material collected
  - \$129,000 contract increase for haulage and processing

# Next Steps

- **Continue to negotiate with PCA**

- **Review Service Options:**

## **Status Quo**

- Continue to operate the Region's HHW depots

## **Reduce Service Levels**

- Reduce hours of operation
- Only accept designated materials
- Stop accepting non-designated materials / re-direct residents

## **Cease Operating HHW Depots**

- Close depots
- Re-introduce event days as an alternative

- Region continues advocacy through industry organizations such as AMO & Municipal Waste Association

# Questions?