Financial Tools to Support Adaptation: Stormwater Charges and Fees
CCACoP Webinar – January 26, 2016

Dr. Victoria Kramkowski,
Stormwater Charge Program Coordinator
Transportation & Works Department
Presentation Outline

• Purpose of the Stormwater Charge
• Mechanics of Mississauga’s Stormwater Charge Program
• Public response and resultant opportunities
• Encouraging municipal and property-level best practices and adaptation
Stormwater in Mississauga

Why is the City introducing a Stormwater Charge?
Mississauga's stormwater infrastructure network has a replacement value of $1.8 billion
Over 2000km of storm and trunk sewers
200km of streams, rivers and creeks
1000 outlets
57 stormwater management facilities
51,000 catch basins and 250km of ditches and swales
The Stormwater Charge: It Started with a Study

• In 2011, Council approved the initiation of the Mississauga Stormwater Financing Study

• Community stakeholders and the public were consulted

• Council endorsed stormwater charges based on main study conclusions
Increased investment is needed to maintain level of service and state of good repair
Pipe renewal and replacement
Stormwater pond clean-outs
Erosion control
Debris removal
Water quality control
Spills and emergencies
Changing climate and extreme weather
User fees are a fair and dedicated way to fund this essential service
Mechanics of Mississauga’s Stormwater Charge Program
Stormwater Charge Calculation

Stormwater Charge Assessment (billing units) \times \text{Stormwater Rate ($/billing unit)} = \text{Stormwater Charge ($)}

22
## Assessment: Residential Properties

<table>
<thead>
<tr>
<th>Tier</th>
<th>Billing Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smallest</td>
<td>0.5</td>
</tr>
<tr>
<td>Small</td>
<td>0.7</td>
</tr>
<tr>
<td>Medium</td>
<td>1.0</td>
</tr>
<tr>
<td>Large</td>
<td>1.2</td>
</tr>
<tr>
<td>Largest</td>
<td>1.7</td>
</tr>
</tbody>
</table>
Residential Assessment Data

- Hard Surface Area
- Rooftop Area
Assessment: Multi-Residential or Non-Residential Properties

- Impervious (hard) surface area of property individually assessed
- 1.0 Billing Unit per 267m² (2,874 sq. ft.) of hard surface area
- Credit Program available for best management practices
One bill: water and stormwater

- Stormwater charges will appear on the Region of Peel Water Bill
- Charge will be applied at the property level
- Property managers and condo boards will determine the best way to distribute costs
Public Response and Resultant Opportunities
• Need for transparency of both assessments and budget
  – Online Stormwater Estimator
  – Appeal process
  – Separate, dedicated budget
• Highlighted the need to educate public about the stormwater system

• Opportunity to provide public with information on changing climate and other drivers of flooding

• Opportunity to provide public with information on best management practices, and explore how to recognize and encourage work done by the residential sector
Encouraging Best Practices and Adaptation
Property Level: Credit Program

• Credits will reward stormwater Best Management Practices (BMPs) providing direct City-wide benefits

• Credit amounts will be proportional to the benefit received by City’s stormwater program
Underground Detention Facility
Permeable Pavement
Green Roofs
Bioswales
Program Basics

• Multi-Residential and Non-Residential properties are eligible
• Maximum credit is 50%
• Credits effective for 5-year, renewable terms
• Applications are accepted for existing or proposed stormwater BMPs
• Program provides flexibility to property owners in the BMP types they implement
## Credit Schedule

<table>
<thead>
<tr>
<th>Category</th>
<th>Evaluation Criteria</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Flow Reduction</td>
<td>Percent reduction of the 100-year post-development flow to pre-development conditions of the site</td>
<td>Up to 40%</td>
</tr>
<tr>
<td>Water Quality Treatment</td>
<td>Consistent with Provincial criteria for enhanced treatment</td>
<td>Up to 10%</td>
</tr>
<tr>
<td>Runoff Volume Reduction</td>
<td>Percent capture of first 15 mm of rainfall during a single rainfall event</td>
<td>Up to 15%</td>
</tr>
<tr>
<td>Pollution Prevention</td>
<td>Develop and implement a pollution prevention plan</td>
<td>Up to 5%</td>
</tr>
</tbody>
</table>

Total No More than 50%
Maximizing Partnerships

- Work with partners at Credit Valley Conservation Authority and Partners in Project Green/Toronto Region Conservation Authority to support property owners in implementing BMPs
Municipal Level Initiatives

• Pipe renewal fund
• Focus on overland flow
• Resolution to apply LID to road right-of-ways when possible
Summary

• Stormwater charge can provide dedicated funding for stormwater infrastructure development and adaptation

• Transparency and acknowledgement of best practices is important

• Maximize partnerships in order to support the charge and fill gaps.
Thank You

Visit www.stormwatercharge.ca
• Charge Estimator
• Reports and Policies
• Request for Review of Stormwater Charge Assessment
• More Information

Contact us at stormwater@mississauga.ca