



Agenda
Environment Advisory Committee
The Corporation of the City of Brampton

Date: Tuesday, December 8, 2020
Time: 5:00 p.m.
Location: Council Chambers - 4th Floor, City Hall - Webex Electronic Meeting
Members: Preethi Anbalagan (Co-Chair)
Akeem Gardner (Co-Chair)
Harripaul Bridgemohan
Rajbalinder Ghatoura
Jafir Jaferi
David Laing
Sanjay Mathur
Tamsen Metcalfe
Davika Misir
Amandeep Purewal
Sherry-Ann Ram
Vipul Shah
Stacey Wilson
City Councillor D. Whillans - Wards 2 and 6

NOTICE: In consideration of the current COVID-19 public health orders prohibiting large public gatherings and requiring physical distancing, in-person attendance at Council and Committee meetings will be limited to Members of Council and essential City staff.

As of September 16, 2020, limited public attendance at meetings will be permitted by pre-registration only (subject to occupancy limits). It is strongly recommended that all persons continue to observe meetings online or participate remotely. To register to attend a meeting in-person, please [complete this form](#)

For inquiries about this agenda, or to make arrangements for accessibility accommodations for persons attending (some advance notice may be required), please contact:
Sonya Pacheco, Legislative Coordinator, Telephone 905.874.2178, TTY 905.874.2130
cityclerksoffice@brampton.ca

Note: Meeting information is also available in alternate formats upon request.

-
1. Call to Order
 2. Approval of Agenda
 3. Declarations of Interest under the Municipal Conflict of Interest Act
 4. Previous Minutes

4.1. Minutes - Environment Advisory Committee - October 13, 2020

The minutes were approved, as amended, by Committee of Council on October 21, 2020, and approved by Council on October 28, 2020. EAC021-2020 was amended to read as follows:

EAC021-2020

That it is the position of Brampton City Council, and consistent with the City position already in place with respect to the Heritage Heights Planning Area, that ERO Posting 019-2377 not include the 400 Series Highways for a streamlined Environmental Assessment, in so far as it impacts the Heritage Heights Planning Area within the City of Brampton, due to expected environmental and social impacts from the proposed 400 Series Highway Project in this part of the City, and that the Highway Project be subject to the full Environmental Assessment process.

The minutes are provided for Committee's information.

5. Presentations\Delegations

- 5.1. Delegation from Alice Casselman, Founder/President, ACER (Association for Canadian Educational Resources), and Catherine Soplet, Founder/Lead Strategist, Building Up Our Neighbourhoods, re: Project Crossroads Urban Reforestation Activities
- 5.2. Staff Presentation re: Bramalea Sustainable Neighbourhood Action Program (SNAP) Action Plan

Presenters: Shannon Logan, Senior Program Manager of Sustainable Neighbourhoods, Toronto and Region Conservation Authority, and Stavroula Kassaris, Environmental Planner, Public Works and Engineering

Recommendation

- 5.3. Staff Presentation re: Brampton Grow Green Environmental Master Plan Action Plan and Metric Refresh

Presenter: Stavroula Kassaris, Environmental Planner, Public Works and Engineering
Recommendation

- 5.4. Staff Presentation re: Riverwalk Area Urban Design Master Plan

Presenter: Alex Taranu, Senior Advisor, Public Works and Engineering
To be received

6. **Reports/Updates**

7. **Sub-Committees**

- 7.1. Current EAC Sub-Committee Membership List (updated November 2020)

Note: The membership list has been updated and is provided for Committee's information.

8. **Other New/Business**

- 8.1. 2021 EAC Schedule of Meetings

Note: The meeting schedule is provided for Committee's information

- 8.2. Discussion at the request of Stavroula Kassaris, Environmental Planner, Public Works and Engineering, re: Request for Environment Advisory Committee Representation on the Official Plan Review Community Leaders Advisory Group

- 8.3. Discussion at the request of Stacey Wilson, Committee Member, re: Implications of Bill 229 (Protect, Support and Recover from COVID-19 Act)

9. **Correspondence**

10. **Question Period**

11. Public Question Period

5 Minute Limit (regarding any decision made under this section)

During the meeting, the public may submit questions regarding recommendations made at the meeting via email to the City Clerk at cityclerksoffice@brampton.ca, to be introduced during the Public Question Period section of the meeting.

12. Adjournment

Next Regular Meeting: Tuesday, February 9, 2021

Tuesday, October 13, 2020

Members Present: Akeem Gardner (Co-Chair)
Harripaul Bridgemohan
Rajbalinder Ghatoura
Jafir Jaferi
David Laing
Tamsen Metcalfe
Davika Misir
Sherry-Ann Ram
Vipul Shah
Stacey Wilson
City Councillor D. Whillans

Members Absent: Preethi Anbalagan (Co-Chair)
Amandeep Purewal
Malcolm Hamilton
Ken Lauppe
Kayla Wong

Staff Present: Michael Hoy, Supervisor, Environmental Planning, Public Works and Engineering
Pam Cooper, Environmental Planner, Public Works and Engineering
Stavroula Kassaris, Environmental Planner, Public Works and Engineering
Peter Fay, City Clerk
Charlotte Gravlev, Deputy City Clerk
Sonya Pacheco, Legislative Coordinator

1. **Call to Order**

The meeting was called to order at 6:06 p.m. and adjourned at 8:47 p.m.

2. **Approval of Agenda**

The following motion was considered.

EAC012-2020

That the agenda for the Environment Advisory Committee Meeting of October 13, 2020 be approved as amended to add the following:

7.1. Grow Green Network Sub-Committee Report

Carried

3. **Declarations of Interest under the Municipal Conflict of Interest Act**

Nil

4. **Previous Minutes**

4.1 Minutes - Environment Advisory Committee - February 11, 2020

The minutes were considered by Committee of Council on February 19, 2020, and were approved by Council on February 26, 2020. The minutes are provided for Committee's information.

The minutes were considered by Committee of Council on February 19, 2020, and approved by Council on February 26, 2020. The minutes were provided for Committee's information.

5. **Presentations\Delegations**

5.1 Presentation by Stavroula Kassaris, Policy Planner - Environment, Public Works and Engineering, re: Brampton Grow Green Environmental Masterplan (EMP) Refresh Update

Stavroula Kassaris, Environmental Planner, Public Works and Engineering, provided a presentation entitled Brampton Grow Green Environmental Masterplan (EMP) Refresh Update.

Committee discussion on this matter included the following:

- Progress and percentage of targets achieved on the approved 2014 EMP
- Renewed focus of the EMP Action Plan, which includes refinement of the actions and input from the 2040 Vision
- Indication from staff that the City has reached the 50% (approx.) mark of the original 10-year plan
- Draft Action Plan Survey
 - Prioritization of the 10 focus areas
 - Public response to the survey and a request that Committee members promote this survey
- Indication from staff that the plan will be reviewed in five (5) years
- Misconceptions regarding the reduction of greenhouse gas emissions (GHG)
- Indication from staff that the EMP promotes the Community Energy and Emissions Reduction Plan (CEERP)

The following motion was considered.

EAC013-2020

That the presentation from Stavroula Kassaris, Environmental Planner, Public Works and Engineering, to the Environment Advisory Committee Meeting of October 13, 2020 re: **Brampton Grow Green Environmental Master Plan Refresh Update** be received.

Carried

5.2 Presentation by Pam Cooper, Policy Planner - Environment, Public Works and Engineering, re: Community Energy and Emissions Reduction Plan (CEERP)

Pam Cooper, Environmental Planner, Public Works and Engineering, provided a presentation entitled Community Energy and Emissions Reduction Plan (CEERP).

Committee discussion on this matter included the following:

- Home Retrofit Programs
 - Property Assessed Clean Energy (PACE) was identified as the most popular program
 - A certification option and contractors list will be reviewed as part of the design of this program

- Funding opportunity with the Federation and Canadian Municipalities (FCM) and the advantages of applying as part of a regional program
- Sources of GHG emissions and the proportion of energy-related emissions to other sources
 - Staff advised that only sources within the City's scope and within the protocols of the Global Covenant of Mayors for Climate and Energy were considered
- Role of the EAC in the CEERP to promote and participate in engagement activities, and to participate on the stakeholder committee (1-2 representatives)
- Funding for the CEERP

The following motion was considered.

EAC014-2020

That the presentation by Pam Cooper, Environmental Planner, Public Works and Engineering, to the Environment Advisory Committee Meeting of October 13, 2020, re: **Community Energy and Emissions Reduction Plan (CEERP)** be received.

Carried

5.3 Presentation by Michael Hoy, Supervisor, Environmental Planning, Public Works and Engineering, re: Centre for Community Energy Transformation (CCET)

Michael Hoy, Supervisor, Environmental Planning, Public Works and Engineering, provided a presentation entitled Centre for Community Energy Transformation (CCET).

Committee discussion on this matter included the following:

- Screening process for participation on the Community Task Force, and an indication that certain skills, knowledge and experience will be required to participate
- Differences between the CCET and the Grow Green Network (GGN)
 - Staff advised that the CCET will be focusing on major infrastructure projects (transformative), whereas the GGN is focused on grass roots environmental programs (engagement and collaboration)
- Efforts of the GGN to become an entity independent from the City, and an indication that a plan will be presented at a future meeting on how the GGN can grow and evolve, and contribute to the CCET

The following motion was considered.

EAC015-2020

That the presentation by Michael Hoy, Supervisor, Environmental Planning, Public Works and Engineering, to the Environment Advisory Committee Meeting of October 13, 2020, re: **Centre for Community Energy Transformation (CCET)** be received.

Carried

5.4 Presentation by Zoe Milligan, Policy Planner - Environment, Public Works and Engineering, re: Eco Park and One Million Trees Update

On behalf of Zoe Milligan, Planner, Public Works and Engineering, Michael Hoy, Supervisor, Environmental Planning, Public Works and Engineering, provided a presentation entitled Eco Park and One Million Trees Update.

Committee discussion on this matter included the following:

- Information regarding a successful tree planting program in New York City and information on the New York City Street Tree Map web page: <https://tree-map.nycgovparks.org/>
- Eco systems and the contribution of trees to natural habitats
- Indication from staff that the City will not be re-designating parks but will be reviewing the addition of eco spaces within parks
- Changes to parks design and maintenance processes as a result of the Eco Park Program
- Process for the naturalization of parks, which is done in consultation with the community

The following motion was considered.

EAC016-2020

That the presentation by Zoe Milligan, Planner I, Public Works and Engineering, to the Environment Advisory Committee Meeting of October 13, 2020, re: **Eco Park and One Million Trees Update** be received.

Carried

6. **Reports/Updates**

6.1 Verbal Update from Rajbalinder Ghatoura, Committee Member, re: Delegation to Committee of Council - Development of a Waste Diversion Strategy

Rajbalinder Ghatoura, Committee Member, advised that, as previously directed by the EAC, he and Amandeep Purewal will be delegating at the October 21, 2020 Committee of Council meeting regarding the development of a corporate waste diversion strategy. He provided details on the focus of the presentation which will include:

- inconsistent waste standards at all City facilities
- the impact of contaminated recyclable materials
- the importance of setting positive examples for residents
- request for the City to implement a corporate waste diversion strategy

Mr. Ghatoura encouraged Committee Members to participate in this meeting to support the delegation.

Committee discussion on this matter included the following:

- Confirmation that the matter of dog and pet waste as a concept for diversion, and its conversion into energy, has been incorporated into the presentation
 - Information was provided on dog waste technology in the City of Mississauga, which resulted in a significant reduction of waste

The following motion was considered.

EAC017-2020

That the verbal update from Rajbalinder Ghatoura, Committee Member, to the Environment Advisory Committee Meeting of October 13, 2020, re: **Delegation to Committee of Council - Development of a Waste Diversion Strategy** be received.

Carried

7. Sub-Committees

7.1 Grow Green Network Sub-Committee Report

David Laing, Grow Green Network (GGN) Sub-Committee Chair, provided an overview of the GGN Sub-Committee Report, which included details on the following:

- Number of GGN Sub-committee meetings held and GGN meetings organized since February 2020
- Preparations for the launch of the GGN
- Number of people and organizations that participated in the GGN meetings

- Approved GGN mission and vision
- Significant feedback received from participants on GGN priorities
- GGN focus on networking, partnering and workshops, and the establishment of working groups for these focus areas
- Review of options for the GGN to operate independently from the City and how it can collaborate with the CCET

The following motion was considered.

EAC018-2020

That the Grow Green Network Sub-Committee Report, to the Environment Advisory Committee Meeting of October 21, 2020, be received.

Carried

8. Other New/Business

- 8.1 Verbal Advisory from the City Clerk's Office, re: Resignation of Environment Advisory Committee Members - Malcolm Hamilton, Ken Lauppe and Kayla Wong

Sonya Pacheco, Legislative Coordinator, City Clerk's Office, advised Committee that Malcolm Hamilton, Kayla Wong and Ken Lauppe have resigned from the Environment Advisory Committee. Ms. Pacheco indicated that one alternate member was appointed by Council in May 2019 and this member has confirmed their continued interest in participating on this Committee. Ms. Pacheco added that, at this time, the City Clerk's Office will not be advertising to fill the remaining vacancies, noting that this decision will be revisited in the future depending on the easing of COVID-19 related restrictions.

The following motion was considered.

EAC019-2020

1. That the verbal advisory from the City Clerk's Office, to the Environment Advisory Committee Meeting of October 13, 2020, re: **Resignation of Environment Advisory Committee Members** be received; and
2. That the resignations of Malcolm Hamilton, Kayla Wong and Ken Lauppe, from membership on the Environment Advisory Committee be accepted.

Carried

8.2 Discussion Item at the request of Stavroula Kassaris, Policy Planner - Environment, Public Works and Engineering, re: Request for Environment Advisory Committee Representation on the River Walk Area Urban Design Master Plan Community Liaison Team

Stavroula Kassaris, Environmental Planner, Public Works and Engineering, provided information to Committee regarding the Riverwalk project, and requested that two members be selected to participate and represent the Environment Advisory Committee on the River Walk Area Urban Design Master Plan Community Liaison Team.

Ms. Kassaris advised that additional information on this project could be found on the City's website here: <https://www.brampton.ca/EN/Business/planning-development/projects-studies/riverwalk/Pages/Welcome.aspx>

The following motion was considered.

EAC020-2020

That Akeem Gardner and David Laing be selected to represent the Environment Advisory Committee on the River Walk Area Urban Design Master Plan Community Liaison Team.

Carried

8.3 Discussion Item at the request of Akeem Gardner, Co-Chair, re: Implications of the Provincial Government's Environment Assessment (EA) Process on Environmental Protection.

Akeem Gardner, Co-Chair, and David Laing, Committee Member, provided information to Committee regarding the implications of the Provincial Government's streamlined Environment Assessment (EA) process on environmental protection in Brampton. Concerns were raised regarding the inclusion of the proposed 400 series highway project in the Heritage Heights Planning Area in the streamlined EA process, and submissions were made that this project should be subject to the full EA process.

Committee discussion on this matter included the following:

- Suggestion that the EAC take a position on this matter
- Questions as to whether the Committee has sufficient information to formulate a position
- The City's position on this issue as it relates to the Heritage Heights Planning Area
- Timelines for submitting comments to the Province on this issue

The following motion was considered.

EAC021-2020

That it is the position of the Environment Advisory Committee, and consistent with the City position already in place with respect to the Heritage Heights Planning Area, that ERO Posting 019-2377 not include the 400 Series Highways for a streamlined Environmental Assessment, in so far as it impacts the Heritage Heights Planning Area within the City of Brampton, due to expected environmental and social impacts from the proposed 400 Series Highway Project in this part of the City, and that the Highway Project be subject to the full Environmental Assessment process.

Carried

9. Correspondence

Nil

10. Question Period

1. In response to a question from Akeem Gardner, Co-Chair, regarding the impact of the COVID-19 emergency on environmental targets, Michael Hoy, Supervisor, Environmental Planning, Public Works and Engineering, advised that there has been minimal disruption and staff are confident targets will be met.

2. In response to a question from Sherry-Ann Ram, Committee Member, Sonya Pacheco, Legislative Coordinator, City Clerk's Office, advised that sub-committee chairs are selected by the sub-committee membership and, in light of recent member resignations, the subcommittee membership can be reviewed at the next Environment Advisory Committee meeting.

11. Public Question Period

The public was given the opportunity to submit questions via e-mail to the City Clerk's Office regarding any decisions made under this section of the agenda.

P. Fay, City Clerk, read the following question from Sylvia Roberts, Brampton resident:

"Brampton is a rapidly growing city, expected to add hundreds of thousands of people over the coming decades, who need housing. Embodied emissions, from construction, especially cement and steel, are a significant portion of emissions, yet, the Grow Green Environmental Master Plan, the 2018 update on it, and CEERP do not meaningfully consider emissions from

construction, some don't even acknowledge it exists. The City of Brampton's zoning by-laws regulate what can be built, and issue building permits that allow construction. Why isn't the City taking action on embodied emissions, the single biggest emission source that it has significant influence over?"

Michael Hoy, Supervisor, Environmental Planning, Public Works and Engineering, advised that this is a complex issue, noting that these emissions are difficult to measure. Mr. Hoy indicated that Brampton is working with other municipalities on this issue, is taking local steps with the development industry, and relies on the Province to implement industry standards. In addition, Mr. Hoy clarified the intent of CEERP, and advised that the City will work with the industry to reduce emissions.

City Councillor Whillans added that a number of development industry representatives participated in the CEERP and are reviewing opportunities to reduce their emissions.

12. Adjournment

The following motion was considered.

EAC022-2020

That the Environment Advisory Committee do now adjourn to meet again on Tuesday, December 8, 2020 at 6:00 p.m. or at the call of the Chair.

Carried

Preethi Anbalagan – Co-Chair

Akeem Gardner – Co-Chair



For Office Use Only:

Meeting Name:

Meeting Date:

Delegation Request

Please complete this form for your request to delegate to Council or Committee on a matter where a decision of the Council may be required. Delegations at Council meetings are generally limited to agenda business published with the meeting agenda. Delegations at Committee meetings can relate to new business within the jurisdiction and authority of the City and/or Committee or agenda business published with the meeting agenda. **All delegations are limited to five (5) minutes.**

Attention: City Clerk's Office, City of Brampton, 2 Wellington Street West, Brampton ON L6Y 4R2

Email: cityclerksoffice@brampton.ca Telephone: (905) 874-2100 Fax: (905) 874-2119

Meeting: ☐ City Council ☐ Planning and Development Committee
☐ Committee of Council ☒ Other Committee:

[Environmental Action Committee](#)

Meeting Date Requested: [December 8, 2020](#)

Agenda Item (if applicable):

Name of Individual(s): [Alice Casselman, B.Sc.\(Hons\), M.O.Ed.](#)
[Catherine Soplet](#)

Position/Title:

[Founder and President](#)
[Founder and Lead Strategist](#)

Organization/Person
being represented:

[ACER \(Association for Canadian Educational Resources\)](#)
[Building Up Our Neighbourhoods](#)

Full Address for Contact:

Telephone:

Email:

alice.casselman@acer-acre.ca

Subject Matter
to be Discussed:

[ACER Canada will report on its experience to contribute Project Crossroads urban reforestation activities throughout October 2020 with Knightsbridge residents in Bramalea SNAP areas. Results and impacts have created new community engagement with residents of all ages and backgrounds to play a local role in climate change research, in support of Brampton's One Million Trees program.](#)

Action
Requested:

[1\) Receive Delegation. 2\) Refer to Staff of One of Million Trees Program to establish a mulching program for public school yard trees, to engage Brampton students and residents together in sustained climate change research. 3\) Refer to Brampton City Council ACER's request of Peel Region Council for Letter of Support to Environment Canada - Climate Action and Awareness Fund.](#)

A formal presentation will accompany my delegation: ☒ Yes ☐ No

Presentation format: ☒ PowerPoint File (.ppt) ☒ Adobe File or equivalent (.pdf)
☐ Picture File (.jpg) ☐ Video File (.avi, .mpg)

☐ Other:

Additional printed information/materials will be distributed with my delegation: ☐ Yes ☒ No ☐ Attached

Note: Delegates are requested to provide to the City Clerk's Office **well in advance of the meeting date:**

- (i) 25 copies of all background material and/or presentations for publication with the meeting agenda and /or distribution at the meeting, and
- (ii) the electronic file of the presentation to ensure compatibility with corporate equipment.

Submit by Email

Once this completed form is received by the City Clerk's Office, you will be contacted to confirm your placement on the appropriate meeting agenda.

Personal information on this form is collected under authority of the Municipal Act, SO 2001, c.25 and/or the Planning Act, R.S.O. 1990, c.P.13 and will be used in the preparation of the applicable council/committee agenda and will be attached to the agenda and publicly available at the meeting and on the City's website. Questions about the collection of personal information should be directed to the Deputy City Clerk, Council and Administrative Services, 2 Wellington Street West, Brampton, Ontario, L6Y 4R2, tel. 905-874-2115.



Proposal to Environment Canada: Community Action and Awareness Fund

Project Crossroads: #Climate justice science, for trees and for people.

*Proof of concept: #AcerPx Project Crossroads in Knightsbridge, October 2020
Results and impacts contributed to Brampton Sustainable Neighbourhood Action Program*

Environmental Advisory Committee

City of Brampton

Presented: December 8, 2020

Prepared: Catherine Sople, Building Up Our Neighbourhoods

With: Alice Casselman, B.Sc.(Hons), M.O.Ed., Founder and President

ACER (Association for Canadian Educational Resources)

About this presentation: Requests

REQUESTS:

- Refer delegation to Brampton City Council on December 9, 2020 to request a Letter of Support for ACER's Proposal to Environment Canada: Climate Action and Awareness Fund.
 - ACER's delegation to Peel Council for Letter of Support is scheduled December 10, 2020.
- Refer delegation to City of Brampton staff to establish a process with public school boards to extend its One Million Trees program by delivering mulch to public schoolyards for use in "Mulch, Measure and MOR" units, by students, educators and residents.
 - Deliver hands-on STEM to strengthen student academic talent.
 - Engage public schools and residents of all ages and backgrounds safely in the outdoors.
- Refer delegation to City of Brampton Staff for Community Energy and Emissions Reduction Plan; COVID-19 Youth Support Task Force; and Black African and Caribbean Social, Cultural and Economic Empowerment and Anti-Black Racism Unit.
 - Explore how ACER programs benefit GHG emissions reduction; how youth benefit with outdoor and hands-on cross-curricular activity, and how community tree planting can be guided by a framework to foster equity and inclusion and further understanding of racism, especially anti-Black racism.

About this presentation: Rationale

- **Introduce: Project Crossroads: "*Climate justice science, for trees and for people*"**
Proposal to Environment Canada under Climate Action and Awareness Fund
Period running four years, from 2021-2025: Total Value \$ 1,477,588
- **Proof of Concept:**
How ACER targets planting sites to foster equity, in Brampton and in Peel
 - **Presentation slides to Peel Poverty Reduction Strategy Committee – 2021 Priorities Session on November 27. 2020**
 - **Results and Impacts to deliver Project Crossroads in Knightsbridge, October 2020**
- **Pandemic Protocol to deliver ACER programs in 2020:**
 - **Planting for Change, November 2020 in Malton**
 - **Mulch, Measure and MOR to extend municipal One Million Trees programs**
- **Collecting annual data, for carbon calculation, for use in GHG offset**
- **Further Background: About ACER programs, and**
Founder Alice Casselman, B.Sc.(Hons), M.O.Ed.

ACER's Project Crossroads



ACER funded for Bramalea SNAP project by:

 **Arbor Day Foundation**  **Green Space Program**

Interested in tree planting, measuring, and monitoring?
Get started with Mulch, Measure, and MOR!

RESULTS: October 2020, under COVID

- 5 planting events in 3 Knightsbridge locations
- 71 volunteers, include secondary students
- 153 large trees + native pollinator/bird shrubs (biomass equivalent to 1840 x 1-gallon 18" trees)

Impact:

- Measure-Mulch-MOR units w/ training videos
- Extend Million Trees program with mulch delivery
- Animate non-profit agency ecosystem
- Introduce Carbon Calculation for GHG emission

Project Crossroads is a Proof-in-Concept for application Environment Canada under CAAF:

<https://bit.ly/ACER-Proposal-CAAF-11-2020>

Climate Action and Awareness Fund



Total Proposal value: \$ 1,472,588

EC-CAAF: \$ 816,712

In-Kind: \$ 655,876

Four years:
2021-2025



Project Crossroads: Climate justice science, for trees and for people supports health and wellbeing of communities with significant exposure to climate risk through:

- * action on climate change adaptation**
- * risk reduction and**
- * Greenhouse Gas (GHG) mitigation.**

By 2025, ACER will engage more than 2000 people from all ages and backgrounds, to plant 7,500 native tree indicator species for climate change research.

After Year 4, more than 18 T of Carbon will have been sequestered where people most need shade. Carbon capture will increase as tree canopies grow.

Using civic engagement and proven “Everyday Scientist” research protocols, ACER will develop high-exposure communities with knowledge, tools, and skills that engage residents of all ages and backgrounds in climate action to mitigate heat by planting cooling indicator species shade trees and annual recording Smithsonian data for climate change research.

ACER targets planting sites to foster equity

In 2019, ACER prioritized equity sites in Peel

In 2020, COVID caseload worsened unmet needs

**Next three
Slides presented
to “2021 Priorities”
PPRSC Meeting
November 27, 2020**

2019 Insight:

- Low tree canopy overlays with vulnerable social data.
- ACER moved P4C schoolyard tree planting for climate change research to where students and families live in community.

2020 Innovation:

- Pandemic Learning: ACER pivots to digital delivery
- NFP Agency embedded ecosystems benefit from outdoor/ on-line/ remote activity to reconnect digitally and in the field with client students and families.

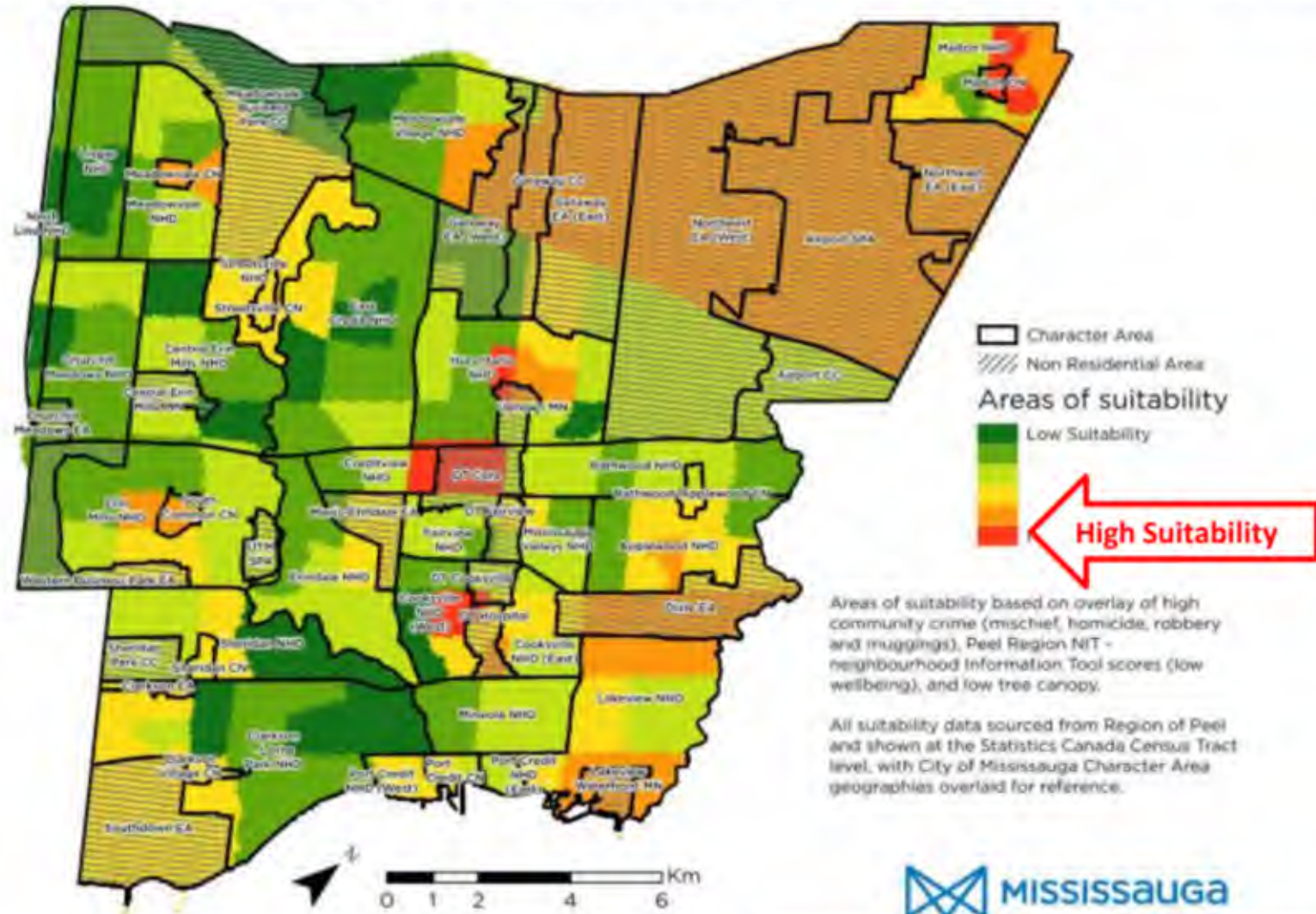
Project Crossroads – Bramalea (January 2020)

Low canopy, unmet social needs – near industrial areas.



Where to plant for Anti-Racism Action Program: City of Mississauga overlays StatCan vulnerability data

Slides presented
“2021 Priorities”
PPRSC Meeting
November 27, 2020



Climate Justice is at risk in Peel



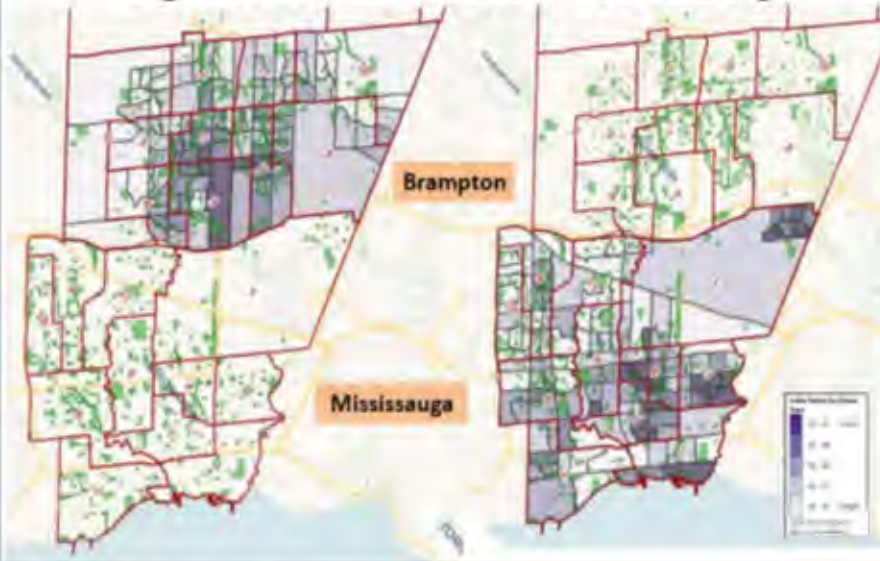
New Immigrant is less likely to reside with easy access to Tree Canopy

Climate Change is a Crisis

Racism is a Crisis

Covid-19 is a Crisis

Mapping Wellbeing against Parks
Lighter tones = Better Wellbeing



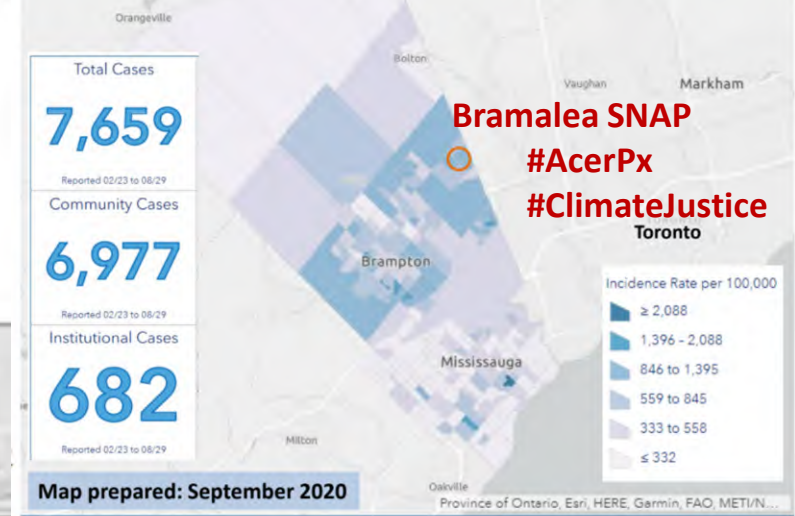
Peel Region
Neighbourhood Information Tool



Recent Immigrants in Peel
by Dissemination Area (2016)
Peel Newcomer Strategy Group
Collective Impact Report (2019)

Where to plant for Project Crossroads:
Region of Peel – Public Health COVID-19 Dashboard

COVID-19 Caseload by Postal Code



Bramalea SNAP
#AcerPx
#ClimateJustice
Toronto

In 2019 Knightsbridge targeted for
urban reforestation via community
tree planting for climate change research

In 2020, COVID had disproportionate
high impact in same areas.

Slides presented "2021 Priorities"
PPRSC Meeting November 27, 2020

#AcerPx #Knightsbridge

"Climate justice science, for trees and for people."

Where to plant for Project Crossroads: City of Brampton overlays low trees w/ vulnerability

Bramalea SNAP (Google Maps)

Bramalea SS
Carmichael Dr. PS
Eastbourne Drive PS
Fallingdale PS
Folkstone PS
Cardinal Newman Catholic Elem.
Georges Vanier Catholic

Bramalea Schools

mt PS
re Senior PS
/ 10
rd PS
PS
-D'Arcy Catholic ES

Southwest
Greenfield PS
Bramalea Dr.

Project Crossroads: Planting for Change

Community Tree Planting in Bramalea SNAP Areas

(Sustainable Development Action Plan - Urban Revitalization)

Collaboration of ACER Canada [Association of Canadian Educational Resources]

City of Brampton Toronto and Regional Conservation Authority (TRCA)



ACER Canada

Project Crossroads: Planting for Change - "Climate justice science, for trees and for people." [Read more...](#)

Toronto and Region Conservation Authority (TRCA), City of Brampton, Region of Peel and Healthy Communities Initiative are working closely with neighbourhood community leaders, residents and businesses to develop a Sustainable Neighbourhood Action Program (SNAP) for Bramalea. [Read more at TRCA site...](#)

Working Dates for Bramalea SNAP area community tree planting with ACER Canada - Subject to Conditions

Wednesday, October 7, 2020 | 9 a.m. to 2 p.m. | Peel Living (10 Knightsbridge Road, Brampton)

Saturday, October 17, 2020 | 10 a.m. to 12 p.m. | Folkstone Park (830 Clark Boulevard, Brampton)

Saturday, October 24, 2020 | 10 a.m. to 12 p.m. | Caprell Towers (11 Knightsbridge Road, Brampton)



Embedded Agency Ecosystem



Slides presented
"2021 Priorities"
PPRSC Meeting
November 27, 2020



N. Anthony School
St. Jean Baptiste Separate School
Ste-Jeanne-D'Arc Catholic ES
Ste. Marguerite Bourgeoys Separate
St. Jean de Brebeuf ES
St. John Bosco School
St. John Fisher Catholic School
St. Thomas Aquinas SS
Tall Pines School
Williams Parkway St. PS



Volunteers
Family "bubbles"

... and students

ACER thanks Knightsbridge residents for welcoming Project Crossroads ...
ACER thanks Knightsbridge residents for welcoming Project Crossroads
trees, to contribute much-needed cooling shade and sustained climate ...
us4.campaign-archive.com

ACER Canada funded by Arbor Day Foundation, under TD Green Space Program

P4C Planting for Change: Establish New Trees

A schoolyard program to establish outdoor learning and research across the curriculum and grades, teaches many skills to develop tree stewards. A suite of indicator tree species is selected and installed for long term maintenance, to annually measure, report and share data for analysis. A sense of shared ownership reduces vandalism.

Since 2008, P4C planted 60+ schools. Morning Star Middle School planted November 2020, before frost, with ACER-designed with Covid-adapted Planting Protocols meeting Peel Health restrictions that was tested and approved by Mississauga, Brampton, TRCA and CVC on August 6, 2020.



Malton - Middle School planting in November 2020

Mulch, Measure and MOR – For 1 Million Trees

Measuring Our Resources 2020 with ACER's Covid-19 protocols

ACER is finding free mulch for school yard trees as first step to help teachers get outdoors. Why?

1. Civic engagement (1 Million Trees)
2. To provide a real and relevant activity outdoors
3. To put Snow Boots on trees to insulate their roots for survival!
4. To provide FOLLOW UP activities with on-line component

FOLLOW UP ACTIVITIES:

OUTSIDE :

- Hands On - add measurement of DBH, silhouettes and bark photos to help identify species.

INSIDE:

- Online – confirm species ID, map trees, use carbon calculator for Carbon stored and CO2 absorbed in Kg. Convert to metric tons for reporting.

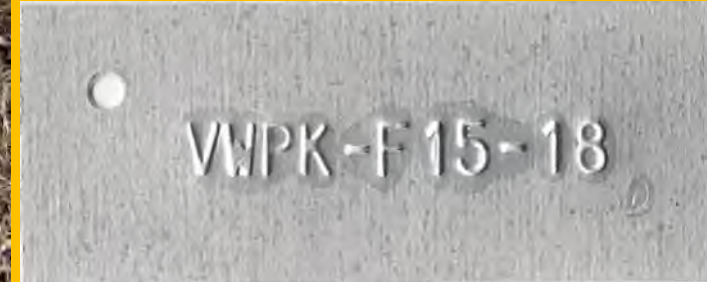
Hands On Measurements: Annual Data





ACER
ASSOCIATION FOR CANADIAN
EDUCATIONAL RESOURCES

Site
Season
Year
Tree Number



202-92 Lakeshore Road East
Mississauga, ON L5G 4S2
Tel: (905) 891-6004
Email: office@acer-acre.ca

[illegible]

Note:
 ** If tree is > 1.3 m tall, measure diameter at 1.3 m high (DBH).
 For trees with multiple trunks, use tallest trunk of tree for measurements.
 Also measure and include CW of total area of trunks for that tree.

HEALTH CHECK
A: Alive/Healthy
D: Dead/Dying
HB: Heavily browsed
I: Sick/Infested
LB: Lightly browsed
NB: No browsed
BS: Basal sprouting
Tag M: Tag missing
Tree M: Tree missing

INOX TEMP 20 °C

0 1 2 3 4 5 6 7 8

0 1 2 3 4 5 6 7 8 9 0 1/20

2.4 + 0.07 = 2.47 cm

[illegible]

Diameter at
Breast Height
(1.3 metres)

DBH

A caption for this picture

Questions ?

Thank YOU for the opportunity today to share our work!



www.acer-acer.ca

Alice Casselman

Cell 905-601-7685

Introducing Alice Casselman, B.Sc.(Hons), M.O.Ed.

- Ontario Teacher (Retired)
Founding Director, Outward Bound (ON)
- Science Department Head
Etobicoke School of the Arts
- Published author and ecology scientist
- 1987 - Founded ACER Canada to create relevant Canadian-based textbooks
- Humber Arboretum demonstrates five projects for climate change research
- Asset-Based Community Development



September 26, 2020 – Fridays for Future marched to UN for first Youth Summit on Climate Change. ACER launches Project Crossroads in Peel Region.

One Million Trees

Project Crossroads-Bramalea Oct. 2020

Planting for Change adapts for urban reforestation in areas of low tree canopy where residents experience heat vulnerability and higher impact of extreme weather.

Planting for Change (P4C)

We create planting sites in schoolyards and train students to monitor tree growth. The school becomes a part of our climate change monitoring network.

Riparian Rangers (RR)

Plantings along watercourses
Partners choose sites and species
Long term monitoring of 10%

Measuring Our Resources (MOR)

We teach volunteers how to inventory the existing trees on their property for our climate change monitoring network.

Youth Stewardship Project (HYS)

Local youth are trained to restore and monitor natural areas of ecological concern through partnership initiatives.

Go Global (GG)

We train community volunteers to monitor one-hectare forest sites in our international network to track changes in biodiversity over time.

Tracking for Success (T4S)

We measure survival rates of trees to add value to our partners' plantings.



Tree Caching Trails (TCT)

Our mobile application for trails and schoolyards encourages individuals to learn more about their natural surroundings by scanning coded tree tags.

Est.
1987

ACER creates living labs on public school yards with Planting 4 Change program.

ACER is the preferred agency for City of Mississauga – One Million Trees.

Date: 2020-12-08

Subject: **Presentation: Bramalea Sustainable Neighbourhood Action Program (SNAP) Action Plan**

Contact: **Stavroula Kassaris, Environmental Planner, Public Works and Engineering**

Report Number: Public Works & Engineering-2020-440

Recommendations:

1. That the presentation by Shannon Logan, Senior Program Manager of Sustainable Neighbourhoods, Toronto and Region Conservation Authority, and Stavroula Kassaris, Environmental Planner, Public Works and Engineering, to the Environment Advisory Committee meeting of December 8, 2020 re: Bramalea Sustainable Neighbourhood Action Program (SNAP) Action Plan be received;
2. That the Environment Advisory Committee support the establishment of the Bramalea SNAP and endorse the proposed Bramalea SNAP Action Plan; and
3. That TRCA and City staff provide a presentation regarding the Bramalea SNAP Action Plan to Committee of Council.

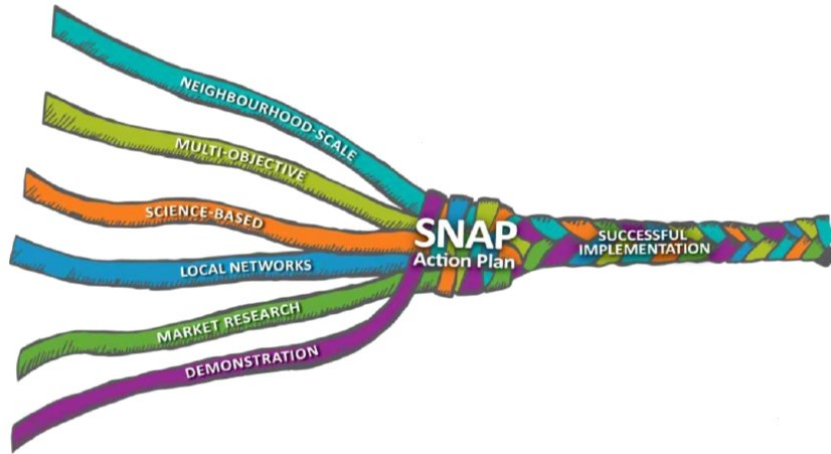
Bramalea Sustainable Neighbourhood Action Plan

Brampton's Environment Advisory Committee

December 8, 2020

Page 37 of 96

What is the Sustainable Neighbourhood Action Program (SNAP)?



The Sustainable Neighbourhood Action Program (SNAP) is a collaborative, neighbourhood-based approach for advancing urban renewal and climate action in older urban areas.

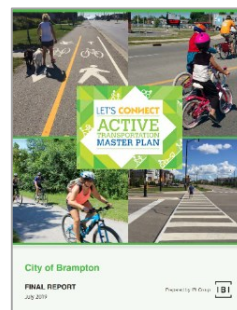
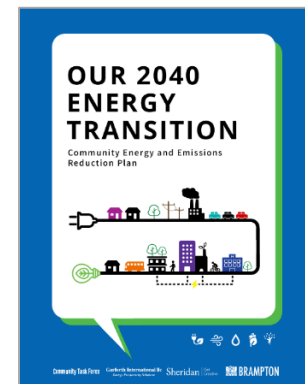
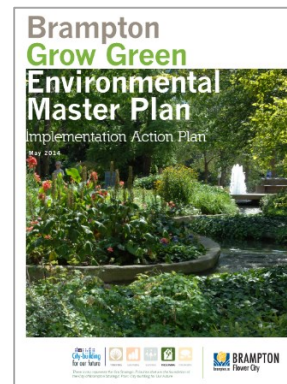
Bramalea SNAP → first rapid SNAP in Brampton

Multiple Benefits of SNAPs

- Achieves multiple objectives of City, Region, TRCA, local community
- Creates efficiencies
- Presents integrated, on-the-ground solutions
- Showcases innovation
- Fosters collaborative partnerships
- Empowers residence
- Builds a sense of place
- Opens access to funding

SNAP Supports the...

- Brampton Grow Green Environmental Master Plan
- Community Energy & Emissions Reduction Plan
- Brampton 2040 Vision: Living the Mosaic
- Nurturing Neighbourhoods Program
- Brampton Eco Park Strategy
- Brampton Active Transportation Master Plan
- Brampton One Million Trees Program



Existing SNAPs in Brampton

County Court SNAP

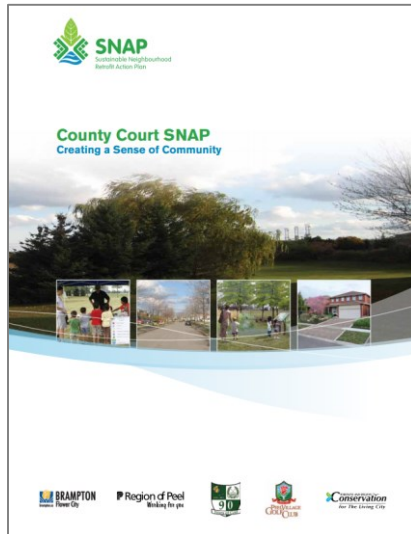


Figure 2: County Court Sustainable Neighbourhood Retrofit Action Plan.

Fletchers Creek SNAP

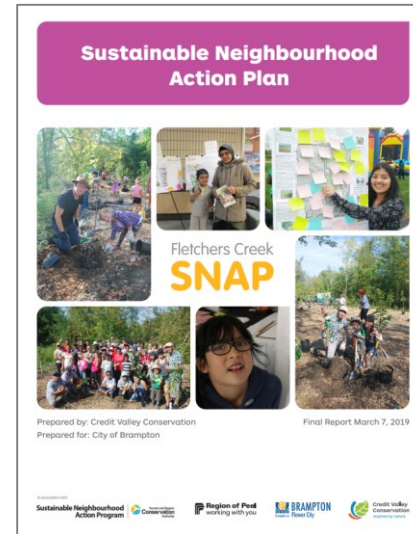


Figure 3: Fletchers Creek SNAP Action Plan Concept

Bramalea SNAP Profile

- K, E and F sections of the broader Bramalea area
- Built between 1960 - 1980
- Over 13,600 people
- Highly diverse demographics
- Range of income levels
- Mix of recent immigrants and longtime residents
- Low, medium, and high density built form

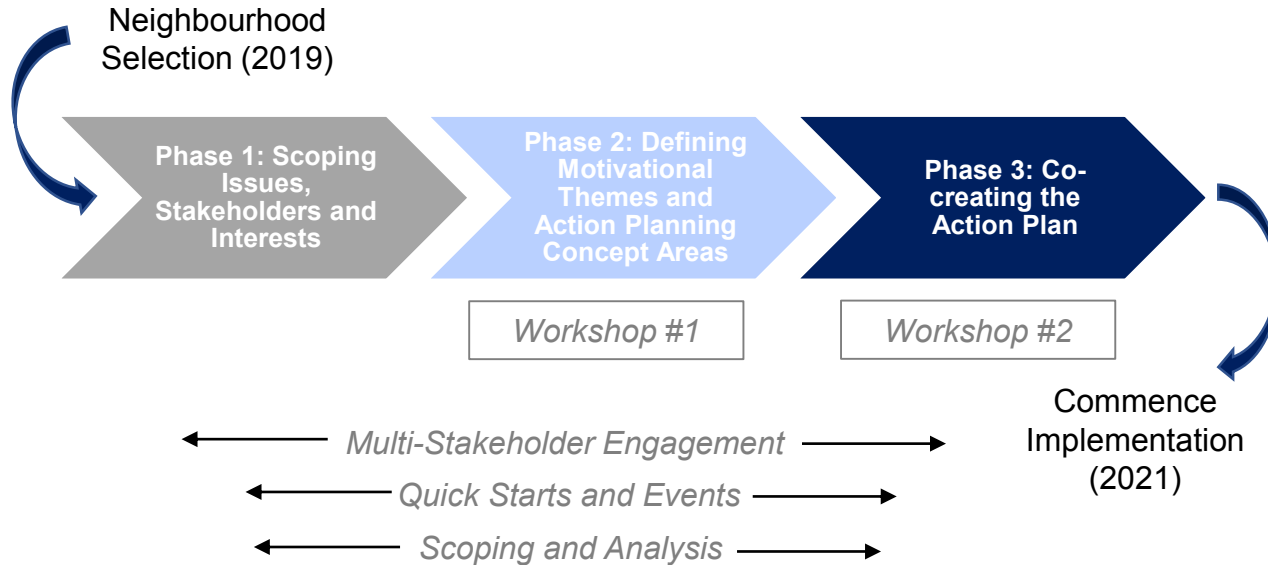


Bramalea SNAP: Key Municipal & TRCA Priorities

- Climate change mitigation and adaptation
- Neighbourhood well-being
- Multi-modal transportation
- Energy and water conservation
- Stormwater management
- Natural heritage enhancement
- Environmental education
- Active and passive recreation



Action Plan Co-creation Process



Shared Action Plan Objectives

- Health and well-being
- Active movement
- Safe and welcoming public spaces
- Engagement and inclusion
- Arts, culture, and place
- Natural system health
- Stormwater management
- Climate resilience / preparedness and low carbon
- Water efficiency
- Materials management

Bramalea SNAP Action Plan: Six Themes

1. System of Eco Spaces and Green Infrastructure
2. Safe and Active Transportation Network
3. Healthy Local Food System
4. Home and Building Efficiency and Resilience
5. Institutional and Commercial Collaboration and Greening
6. Community Resilience

System of Eco Spaces and Green Infrastructure

Re-shaping older parks into Eco Spaces, supporting a healthy green infrastructure system extending into backyards, tower properties, and streets

Recommended Actions:

- Park revitalization and channel rehabilitation in Fallingdale, Earnscliffe, Eastbourne Parks (Eco Spaces)
- Park improvements in Knightsbridge Park (Eco Space)
- Tree planting in parks, boulevards, high-rise properties

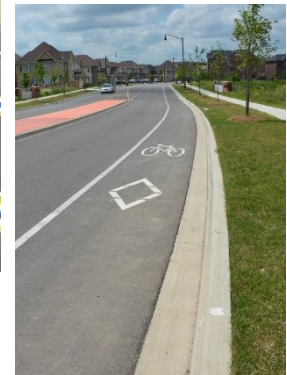
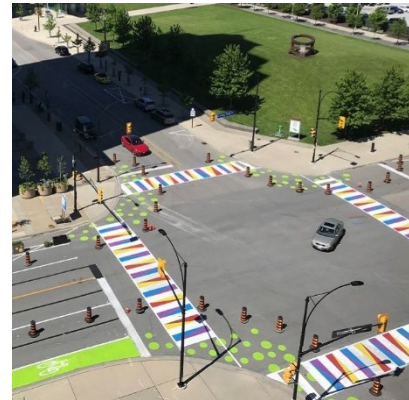


Safe and Active Transportation Network

Enhancements to the existing pedestrian and cycling routes, including safe pedestrian crossings and multi-objective road diets improvements in key areas.

Recommended Actions:

- Multi-objective road diets on Kings Cross Rd, Balmoral Dr, Finchgate Blvd, Eastbourne Dr
- Recreational trail along Clark Blvd
- Pedestrian safety improvements at key road crossing locations
- Traffic calming measures
- Recreation trail wayfinding
- Bus stop improvements



Healthy Local Food System

A series of interconnected urban agriculture initiatives on private and public land to support local growing, sharing, distribution and skills building

Recommended Actions:

- Community gardens in Falingdale and Earnscliffe Parks
- Community gardens at multi-unit residential buildings
- Container or balcony gardens
- Food literacy education and skills-building workshops



Home and Building Efficiency and Resilience

Integrated initiatives and targeted programming to increase overall climate change resilience and reduce GHG emissions in residential homes and buildings, from single detached dwellings to high-rise towers.

Recommended Actions:

- High density properties: Work with tower property owners to develop site concept plans and/or recommendations that support indoor/outdoor resilience and efficiency, and community co-benefits.
- Low and medium density properties: Develop a targeted Home and Property Resilience and Efficiency Initiative to increase home owner uptake in key indoor/outdoor retrofits.



Institutional & Commercial Collaboration and Greening

Targeted engagement of institutional and commercial properties to collaborate on community-based SNAP projects and encourage greening initiatives on their own properties.

Recommended Action:

- Encouraging energy and water retrofits, parking lot greening, sustainable landscaping, tree planting, green or cool roofs, sustainable energy (e.g. solar, geothermal) and district energy.



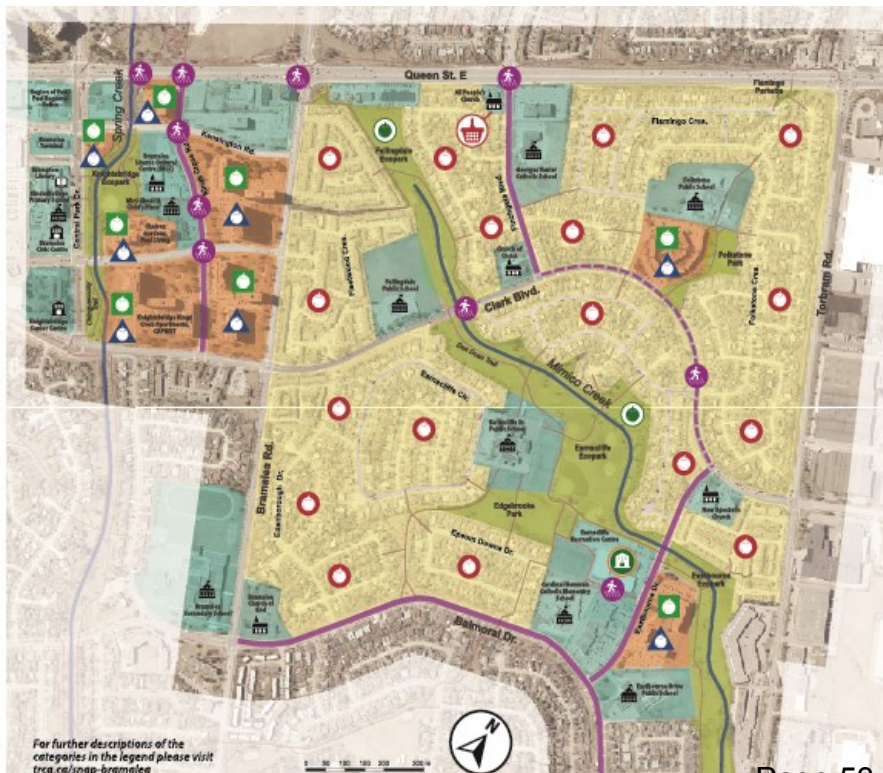
Community Resilience

Facilitating community events and programming to help support further neighbourhood connections, capacity-building, education, arts and culture.

- Recommended Actions:
- Fun, family oriented annual events
- Local markets and pop-up initiatives
- Regular local resident meetings
- Community-based and crowd sourced funding initiatives



Bramalea SNAP Action Plan Map



Neighbourhood SNAP Action Map

LEGEND*

- System of Ecoparks & Green Infrastructure
- Home/Property Resilience & Efficiency
- Tower Resilience & Efficiency
- Institutional, Commercial Collaboration & Greening
- Deep Energy Retrofit

Safe & Active Transportation Network

- New Multi-purpose Road Diet
- New Multi-Purpose Trail
- ⬇ New/Enhanced Pedestrian Crossing/Connectivity

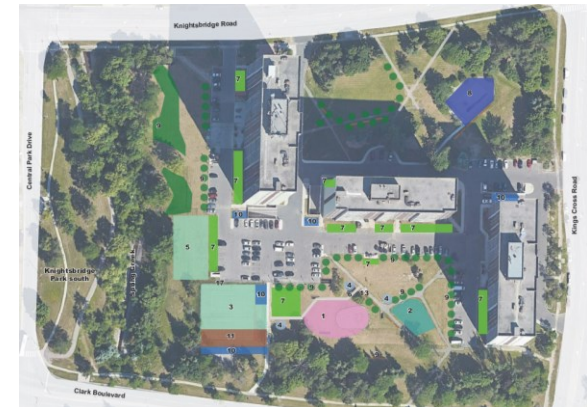
Healthy Local Food System

- ⬆ Local Food Distribution Hub
- Balcony Garden
- Backyard Garden
- ▲ Community Garden on Private Land
- Community Garden on Public Land

- Water Course
- Existing Trail
- ⬆ Library
- ⬆ Places of Worship
- ⬆ School
- ⬆ Community Centre

Quick Wins (2020)

- Community tree planting at Folkstone Park in partnership with ACER (Project Crossroads)
- Community tree planting at 4,10, and 11 Knightsbridge Rd (tower properties) in partnership with ACER (Project Crossroads)
- Co-develop tower revitalization concept plans with Peel Living and CAPREIT



Priority Actions (2021 – 2023)

- Channel and floodplain design for re-naturalization of Mimico Creek in Fallingdale, Earnscliffe, and Eastbourne Parks
- Eco Space design for Fallingdale, Earnscliffe, Edgebrooke and Eastbourne Parks
- Road diet design for Balmoral Dr, Eastbourne Dr, and Kings Cross Rd
- Tower resilience and energy/water efficiency initiatives at Peel Living and CAPREIT (engagement and kick start implementation)
- Community research for design of Home/Property Efficiency & Resilience initiative

Measuring Success: Draft Metric Examples

Sustainability Objective	Key Output (Actions in Short Term) - DRAFT	Key Outcome (Changes Over Long Term / 20 years) - DRAFT
Natural System Health	↑ number and species of trees and shrubs planted	↑ trees canopy cover by 10% by planting approximately 2900 trees
Climate Resilience and Low Carbon	↑ number of home/building retrofits for energy efficiency or renewable energy	↑ household energy efficiency to support City's target of 35% residential energy efficiency gain
Health and Well-being	↑ number community and balcony/backyard gardens in production ↑ number of participants and hours in learning, education, and skills training SNAP program activities	↑ in % of program participants reporting physical and mental well-being

Role of Brampton's EAC

- Endorse Bramalea SNAP
- Recommend that presentation be made to Committee of Council
- Build public awareness of the Bramalea SNAP
- Assistance with promotion and delivery of Bramalea SNAP community events and initiatives
- Share knowledge of other programs, events, and initiatives that may be relevant to Bramalea SNAP

Next Steps

1. Present final Action Plan to City Council
2. Transition to Implementation Team
3. Implementation of priority projects, continued community engagement
4. Development of Performance Monitoring Plan
5. Fundraising in support of projects



Contacts

Shannon Logan, Senior Program Manager, Sustainable Neighbourhoods
Toronto and Region Conservation Authority
Shannon.Logan@trca.ca

Stavroula (Stav) Kassaris, Environmental Planner
City of Brampton
Stavroula.Kassaris@brampton.ca

Date: 2020-12-08

Subject: **Presentation: Brampton Grow Green Environmental Master Plan Action Plan and Metric Refresh**

Contact: Stavroula Kassaris, Environmental Planner, Public Works and Engineering

Report Number: Public Works & Engineering-2020-444

Recommendations:

1. That the presentation by Stavroula Kassaris, Environmental Planner, Public Works and Engineering, to the Environment Advisory Committee meeting of December 8, 2020 re: Brampton Grow Green Environmental Master Plan Action Plan and Metric Refresh Plan be received;
2. That the Environmental Advisory Committee support the Brampton Grow Green Environmental Master Plan Action Plan and Metric Refresh; and
3. That City staff provide a presentation regarding the Brampton Grow Green Environmental Master Plan Action Plan and Metric Refresh to Committee of Council.

Brampton Grow Green EMP Action Plan and Metrics Refresh

Environment Advisory Committee

December 8, 2020





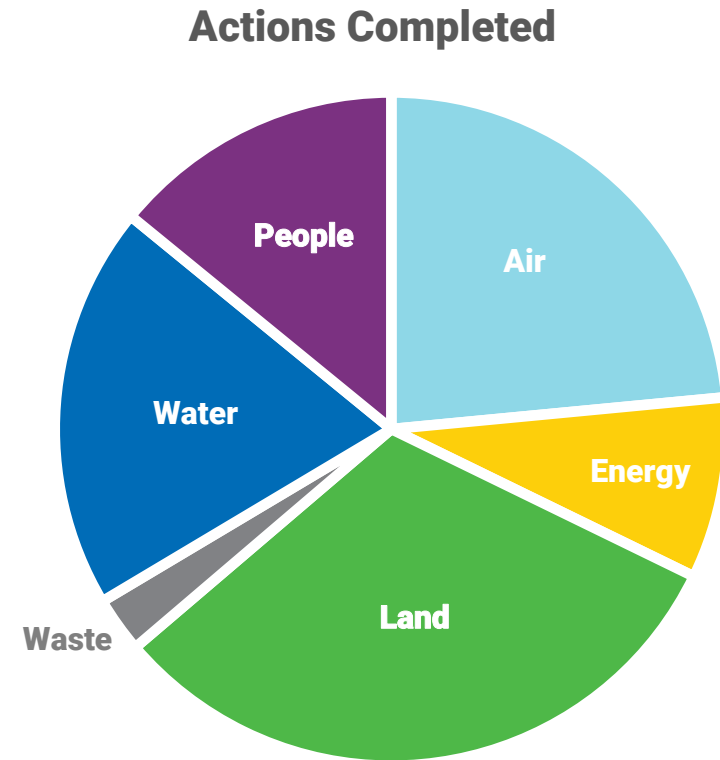
Brampton Grow Green EMP

- City's first comprehensive environmental sustainability framework
- Launch point for variety of City efforts that are making Brampton better for both people and planet
- Living document that should be regularly reviewed and updated
- Brampton Grow Green visions, guiding principles, and core components remain pertinent
- Refresh focuses on Action Plan and Metrics

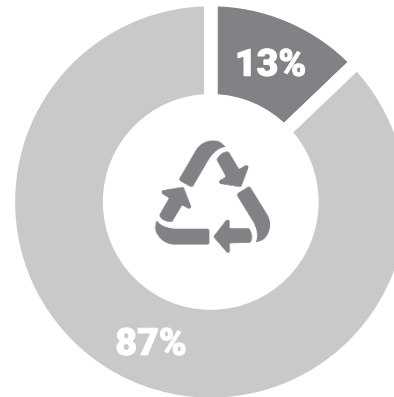
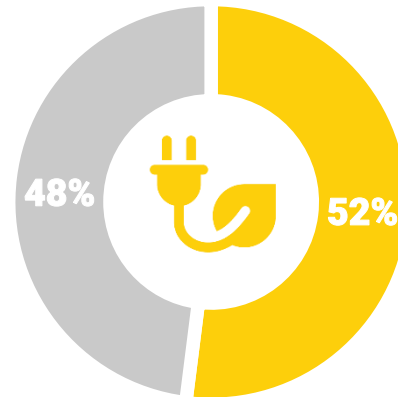
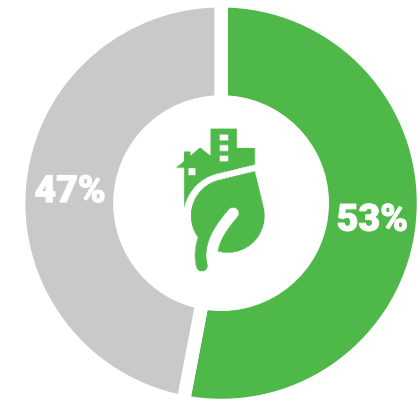
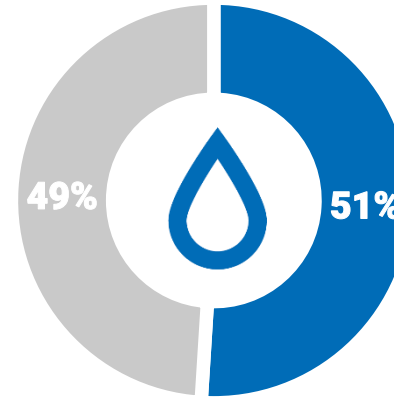
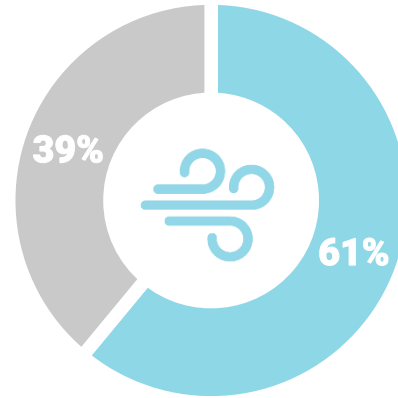
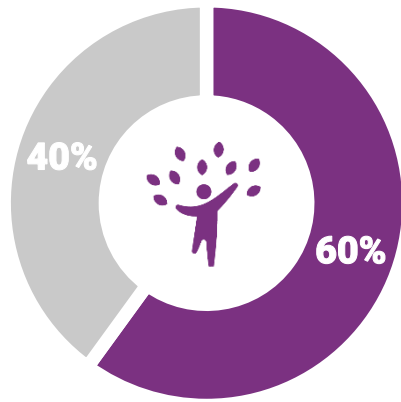


Original Grow Green Action Plan: Progress Achieved

- 10 year action plan
- Over 250 actions
- ~ 6 years into implementation
- 50% of actions completed



Achievements Per Core Component



Fuel for Progress

- Most progress observed among the core components/actions that have:
 - ✓ Specific lead team/staff with clear directive to improve environmental performance
 - ✓ Allocated resources
 - ✓ Councillor champion(s)
 - ✓ External funding opportunities
 - ✓ Partnership/collaboration



Themes That Guided Action Plan Refresh

Distilled research into key themes to inform new action plan:

- Building partnerships
- Empowering the community
- Expanding multimodal transportation
- Creating complete communities
- Fostering natural heritage stewardship
- Improving water quality
- Advancing public health
- Cultivating green jobs
- Supporting a circular economy
- Transitioning to a low carbon future
- Increasing climate change resilience



Proposed New Action Plan



























- Approximately 60 actions
- Carries over numerous actions from original plan
- Streamlined, focused on high impact actions
- Integration of social equity and economic development with environmental sustainability
- Informed by lessons learned, research, and consultation
- Aligned with local, municipal, provincial, and national sustainability priorities
- Prioritized based on public input



What the Community Wanted Prioritized

Rank	Priority
1	Protecting and enhancing our natural heritage assets
2	Supporting sustainable modes of transportation
3	Using water more responsibly
4	Improving stormwater management and enhancing water quality in our rivers and lake
5	Understanding and preparing for climate change impacts
6	Improving the sustainability performance of new neighbourhoods, homes, and buildings
7	Fostering a greener economy
8	Increasing community urban agriculture opportunities
9	Retrofitting existing homes, buildings & neighbourhoods for energy and GHG conservation
10	Improving waste diversion at public properties

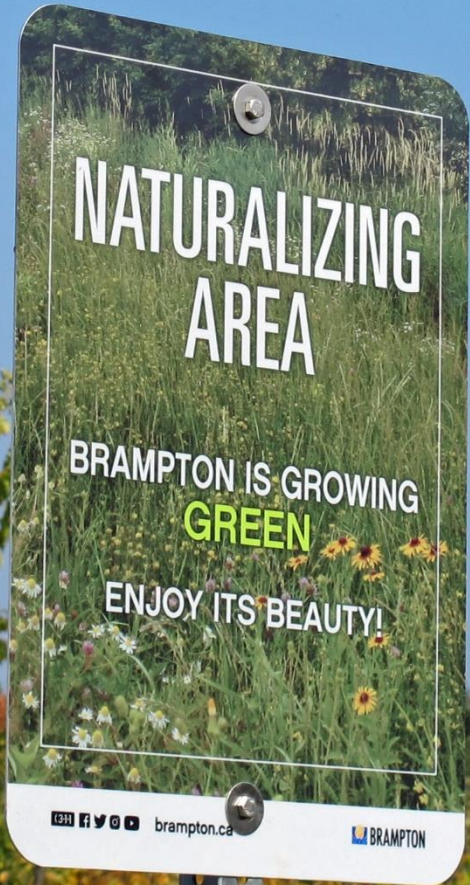
Snapshot of Proposed New Action Plan: Highlight Co-benefits

	PEOPLE	Benefits	City or Community	Priority	Lead Departments
1	Establish a Grow Green recognition program to acknowledge and celebrate environmental leaders within the corporation.		City	Short Term	Public Works & Engineering: Environmental Planning
2	Establish a Grow Green recognition program to acknowledge and celebrate environmental leaders within the community.		Community	Short Term	Public Works & Engineering: Environmental Planning
3	Host an annual City-wide Grow Green celebration and showcase event.		City	Short Term	Public Works & Engineering: Environmental Planning
4	Add an Environmental Sustainability Implications section to reports for Council and its Committees.		City	Short Term	Legislative Services: City Clerk
5	Establish an Environmental Education Centre on City lands at Bovaird Dr and Heritage Rd in collaboration with the Credit Valley Conservation and other partners.	     	Community	Long Term	Public Works & Engineering: Building Design & Construction
6	Develop and publish a Brampton green business inventory.		Community	Long Term	Planning, Building & Ec. Devp: Economic Development
7	Develop and commence implementation of a Green Economic Development Strategy to attract green jobs and investment capital, and promote environmentally sustainable business practices.	     	Community	Long Term	Planning, Building & Ec. Devp: Economic Development
+					
	AIR	Benefits	City or Community	Priority	Lead Department
8	Update and commence implementation of the Transportation Master Plan.	 	City	Short Term	Planning, Building & Ec. Devp: Transportation Planning
9	Develop and commence implementation of a Sustainable Fleet Strategy.	 	City	Short Term	Public Works & Engineering: Fleet Services
10	Develop and commence implementation of a Corporate Transportation Demand Management (TDM) strategy to reduce single occupancy auto vehicle trips generated by City staff and for City operations.	 	City	Short Term	Planning, Building & Ec. Devp: Transportation Planning
11	Develop Complete Street Guidelines and update City standards to implement these guidelines.	  	City	Short Term	Planning, Building & Ec. Devp: Transportation Planning



Original Grow Green Performance Metrics

- 20 metrics spread across all core components
- Both City and Community
- Ambitious targets to motivate action and drive change
- Established with an understanding that they would be refined



Summary of Performance

On Target	Progressing Toward Target	Off Target	No Target Established in Original EMP	Data Unavailable	Limited Data
City: Transit trips	City: Building energy use intensity	Comm: Vehicle km traveled	Comm: GHG emissions	Comm: Renewable energy	Comm: Energy intensity
City: NHS restoration	City: NHS in public ownership	Comm: Public participation in programs	City: GHG emissions	Comm: Density	
Comm: NHS Restoration	City: Community environmental programs	City: Staff participation in programs	City: Watercourse channel naturalization	City: Waste diversion	
	Comm: Waste Diversion	Comm: Potable water demand	City: Trees planted		
		City: Potable water demand	Comm: Trees planted		

Some of the Challenges

Data

- Availability of accurate/reliable data
- Availability of resources to gather, analyze, interpret data
- Evolving methodologies

Achieving Targets

- Rapid growth (efficiency is getting better, but overall use is increasing)
- Wind down of Brampton Clean City
- End of Brampton-Caledon Smart Commute program
- Lack of corporate lead for waste diversion



Refreshed Metrics and Targets

Metrics

- Majority of metrics to remain the same
- Several to be refined:
 - improve clarity on what to monitor
 - reflect what data is available
- One new metric to be added

Targets

- New targets required for post 2020
- Based on new studies/plans that identify targets (e.g. ATMP, CEERP, etc)
- Informed by lessons learned, research, and benchmarking

Next Steps

- Finalize Action Plan and Metric refresh report
- Circulate to internal Grow Green Team for review and endorsement
- Present report to Committee of Council in Q1 2021 for final approval
- Commence implementation of new Action Plan

**Council recently endorsed
substantial increase in
Brampton Grow Green EMP
implementation budget for
2021-2023**

Renewed focus
Renewed vigor
Renewed excitement



Date: 2020-12-08

Subject: Presentation - Riverwalk Area Urban Design Master Plan

Contact: Alex Taranu, Senior Advisor, Architectural Design Services,
Public Works and Engineering

Report Number: Public Works & Engineering-2020-442

Recommendations:

1. That the presentation by Alex Taranu, Senior Advisor, Public Works and Engineering, to the Environment Advisory Committee meeting of December 8, 2020 re: Riverwalk Area Urban Design Master Plan be received.

Brampton's Riverwalk Program

1. Background / Program overview
2. UDMP overview
3. Resilience, Sustainability, Public Health issues
4. Conclusions, next steps

The Riverwalk Area Urban Design Master Plan Project Overview

Brampton Environment Advisory Committee (BEAC)

Alex Taranu & Stav Kassaris

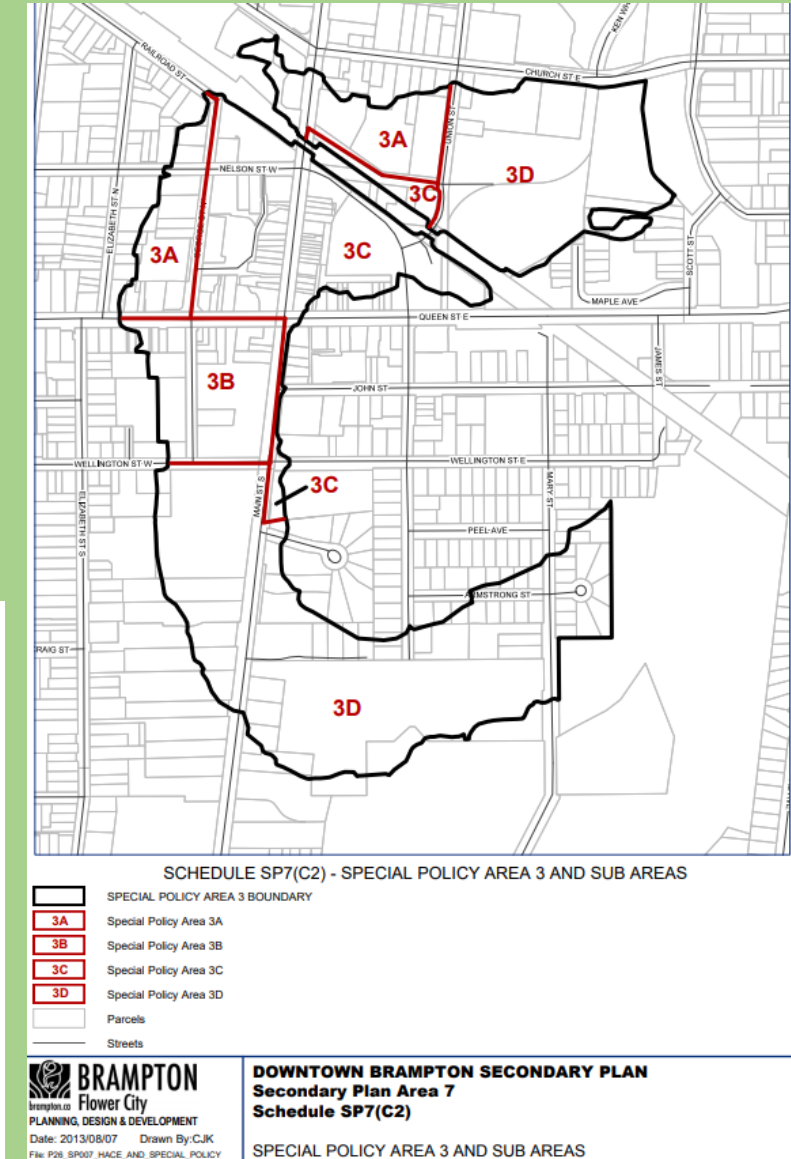
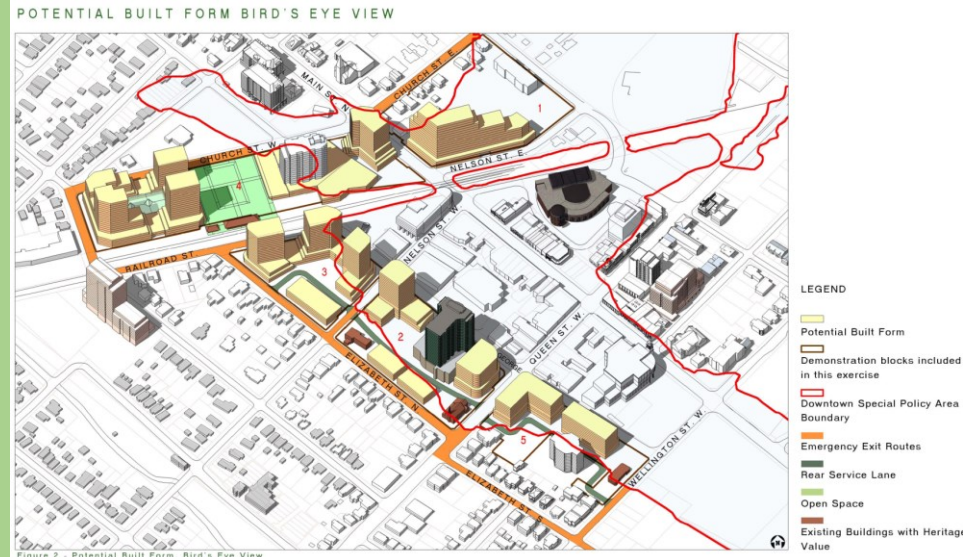
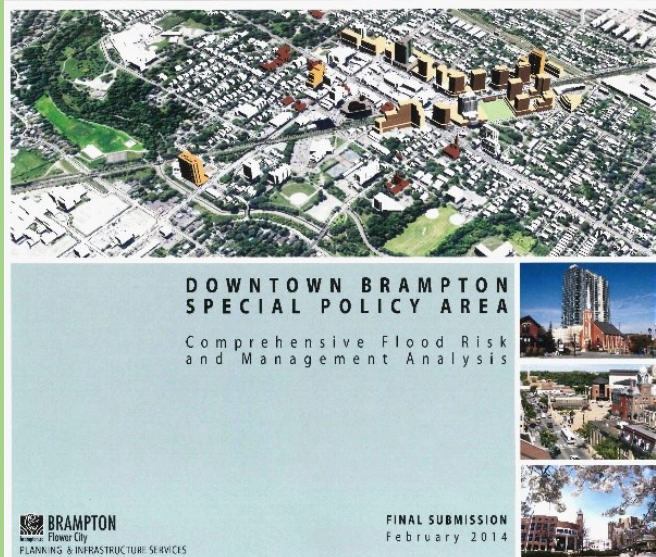
The Riverwalk Project: Background, History

- Long standing relationship of the Etobicoke Creek and flood history
- Catastrophic flood in 1948 triggered Etobicoke Creek diversion channel (1952-53)
- The diversion (channel) worked from flood protection perspective, but took away key character element from Downtown
- Risk of flood remains for the regulatory level (hurricane Hazel)



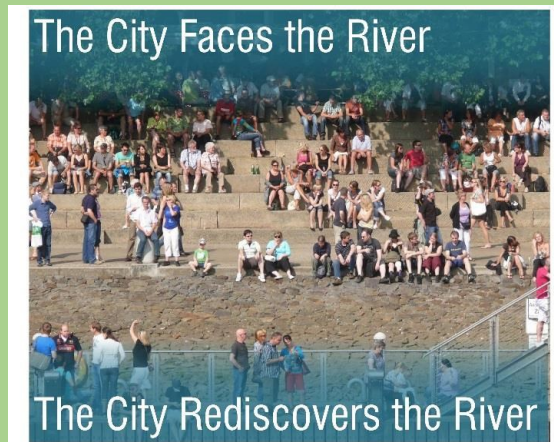
Background: Special Policy Area

- Downtown Brampton Special Policy Area (SPA) established in the 1980s
- Update reviewed and approved by Province in 2014
- Provides clarity around development permissions in the Downtown core
- Establishes planning policies that govern amount and location of development, and requires flood proofing of buildings
- Identifies potential for revitalized creek and surrounding open space to become a major catalyst for quality development
- Gives direction for detailed studies and work



Background: Vision and Feasibility Studies

- Feasibility Studies Phase 1 (2013-2014) and Phase 2 (2016-2018) identified main issues, new approached and methodologies, potential solutions for flood mitigation, impacts, and opportunities leading towards the Environmental Assessment
- Preliminary concepts drafted with advocacy, communication, and visualization work
- The area vision approved by Council in 2014:
“The City Faces the River, the City Discovers the River”
- “Green”, “protect”, “discover”, “diversity” were main principles
- Identifies the Riverwalk area as a pilot, demonstration project in the city



The Riverwalk Program: Overview

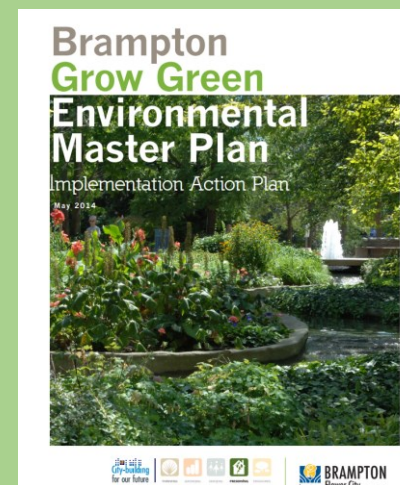
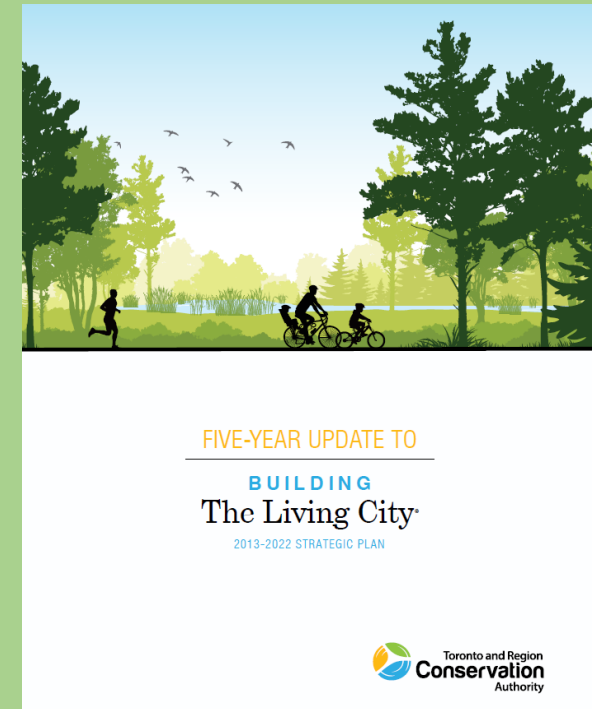
- Key infrastructure, city building, revitalization, and redevelopment game-changing initiative for Brampton
- Integrating flood protection and infrastructure with:
 - revitalization and re-development of the area
 - open space/public realm and placemaking
 - environmental protection and enhancement
 - climate change mitigation and adaptation, resilience, sustainability, and public health
- Transforming a liability into a sustainable asset and attraction
- A long standing, complex program integrating a number of projects



The Riverwalk Program: Policy Context

Strong alignment with Provincial, TRCA, and City of Brampton policies, plans, and programs:

- Provincial approval of the Special Policy update (2014)
- TRCA Living City Strategy (2018)
- Environmental Master Plan (2014)
- Parks and Recreation Master Plan (2017)
- Brampton Council approval (Vision and Feasibility Study, 2014)
- Brampton 2040 Vision (2018)
- Term of Council priorities (2019)
- Brampton Eco Park Strategy (2020)
- Brampton One Million Trees Program (2020)



Riverwalk Program Work Components: Overview



Flood Protection Environmental Assessment (DBFP EA)

- Commenced in 2018
- Assess solutions for flood protection in the Downtown under the Municipal Class category
- Led by Toronto & Region Conservation Authority (TRCA) in partnership with the City of Brampton
- Work proceeding in 2018 to today



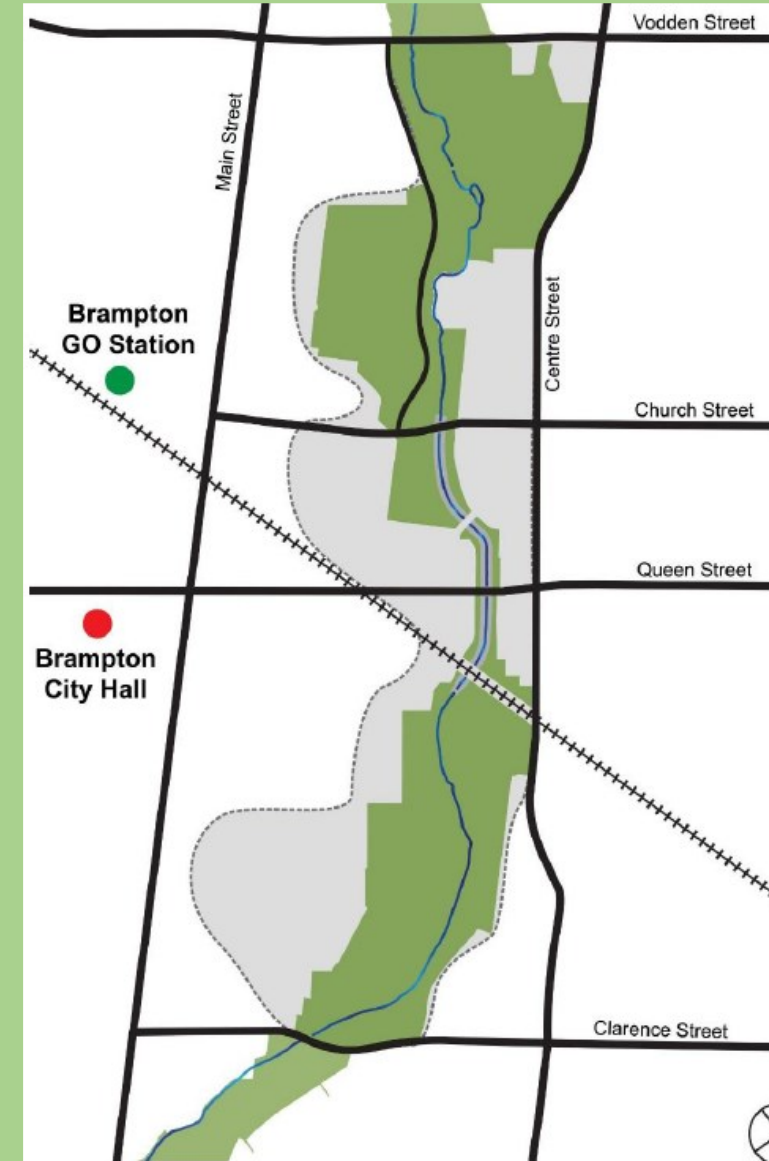
Urban Design/Open Space Master Plan (UDMP)

- Commenced in 2019 to complement the EA
- Led by City of Brampton, involving an extensive list of stakeholders
- Goal is to produce and overall master plan for open space, design concepts for the main parks, preliminary programming, integrate sustainability and resilience
- Engagement and consultation 2020 - 2021



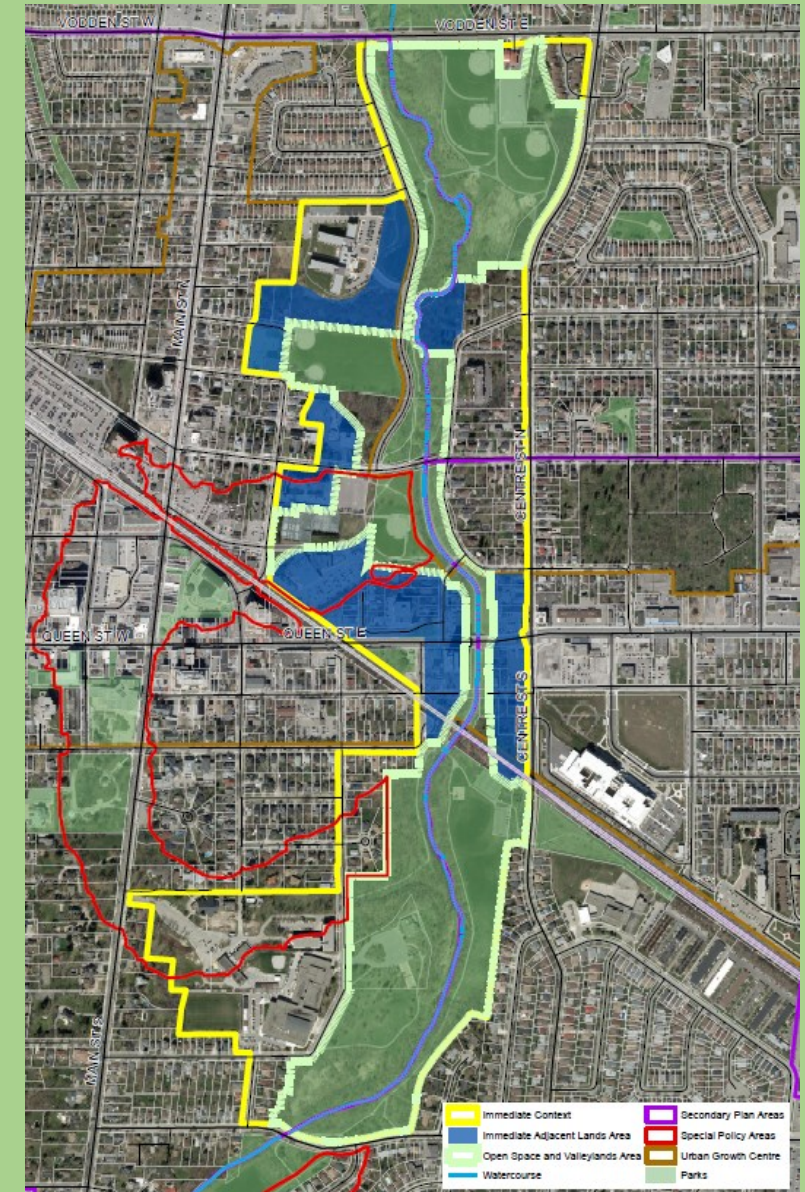
Economic Development, Real Estate

- Return on Investment Study (ROI)- identified economic benefits of unlocking development in downtown Brampton (2019)



Riverwalk Area Urban Design Master Plan (UDMP)

- Assists and complements EA
- Assesses urban design and landscape impacts of engineering solutions, identifies opportunities, proposes landscape treatments for flood mitigation solutions
- Looks at broader valley area, with focus on open space and public realm perspective, active transportation, character and identity
- Will provide concepts and guidelines, preliminary programming, as well as a **framework for resilience and sustainability**
- Based on EA outcome, will also include detailed concepts for parks, trails, and public realm development, facilitating advancement towards Riverwalk implementation and its contribution to Downtown revitalization
- Targeting completion by Q2 2021



Urban Design Master Plan (UDMP)

- The Open Space Plan looking at Etobicoke Creek valley between Vodden and Clarence Streets
- Will produce concepts and guidelines for 5 areas (Dugan Park, Central Public School Park, Rosalea Park, the revamped channel and Centennial Park)
- Opportunities for environmental enhancements, parks development, programming (including for environmental education), character and identity, public art, celebration of local history (including indigenous)
- Opportunities to make entire area more resilient, sustainable, healthy, and accessible, as well as economic development attraction and trigger for revitalization/redevelopment



Riverwalk UDMP: *Work to Date Summary*



Natural Creek Bed in Centennial Park



Naturalized Planting in Centennial Park



Meadow in Duggan Park

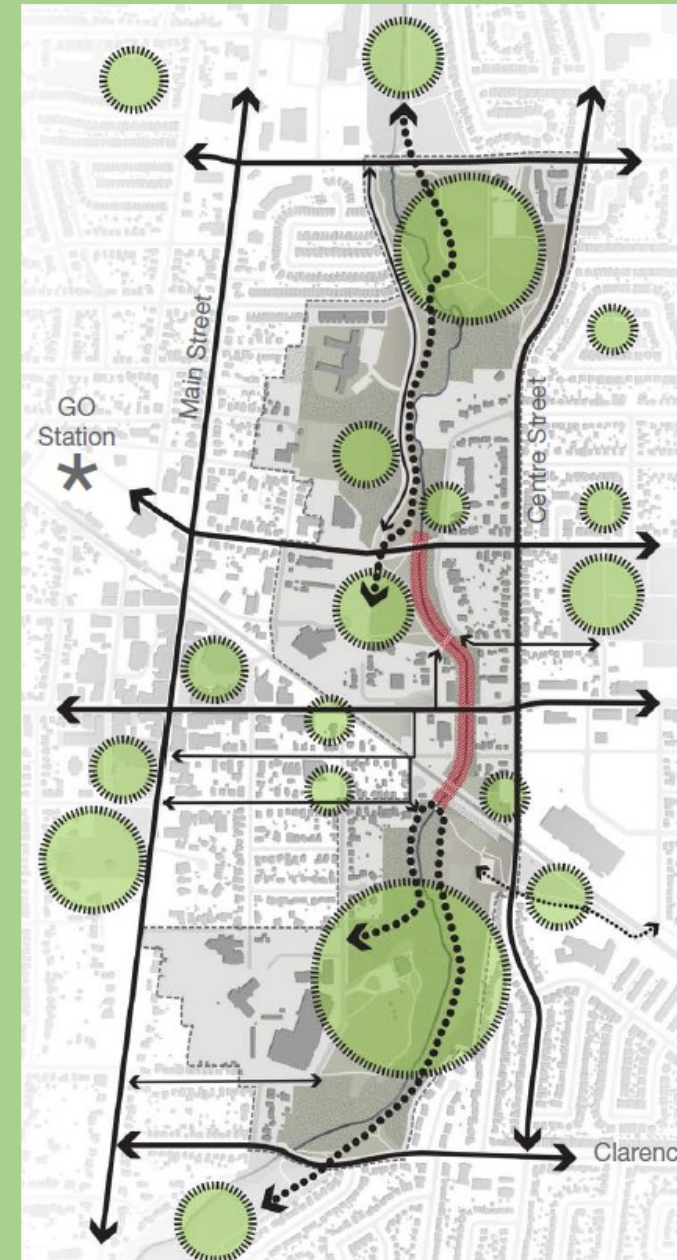


Existing Condition Analysis

- Looked at context and relationships, open space system, transportation and access, environment, heritage

Constraints and Opportunities Analysis

- Review entire area, including parks (Duggan Park, Central Public School Park, Rosalea Park, revamped channel and Centennial Park)



Riverwalk UDMF: Work to Date Summary

Riverwalk Vision

The City Faces the River The City Rediscovered the River

The original vision for Riverwalk presented opportunities for downtown revitalization. The Downtown Etobicoke Creek Revitalization Study was approved by Brampton City Council in June 2014.



Design Principles and Objectives

Riverwalk is Brampton's new riverfront, a continuous ribbon of open space that weaves through and intersects the City's urban fabric and provides a focal point for city building, community, ecology, resilience and sustainability.

Links & Connections

- Connect major destinations along and adjacent to Riverwalk.
- Link Riverwalk bike lanes, streets and transit.
- Integrate Riverwalk into surrounding neighbourhoods, public realm improvements.
- Establish a hierarchy of pathways and trails that are accessible, safe and understandable.
- Establish loops and links to for a flexible and varied experience.
- Create bridges and boardwalks that are accessible and safe.



Integration & Intensification

- Redefine and urbanize Riverwalk edges.
- Create a vibrant riverfront amenity by building upon the Flood Protection measures.
- Establish a new destination identity for the Riverwalk & Downtown.
- Create strong urban connections between the Riverwalk and Downtown Brampton.



Programming & Recreation

- Enhance programs and features to increase recreational opportunities while protecting sensitive habitats.
- Provide new pedestrian experiences of open spaces and water's edge.
- Improve and enhance the overall public realm and functionality.
- Develop varied movement and recreation routes.
- Encourage nature-based play and exploration.
- Encourage physical activity and wellness.



Discovery, Education & Interpretation

- Showcase the rich cultural heritage associated with Downtown Brampton, the Etobicoke Creek and within the Riverwalk study area.
- Develop clear and consistent wayfinding and interpretive signage around major trail entry points and nodes.
- Share the story of the Etobicoke Creek's natural and human history through public art and other installations.



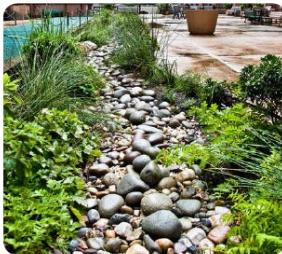
Protect, Preserve & Enhance

- Expand and enhance terrestrial and aquatic habitat for native flora and fauna.
- Enhance responsible interaction with the natural environment.
- Protect and preserve the most sensitive natural areas.
- Protect, enhance and establish new view corridors, vistas and visual connections from surrounding streets, bridges and neighbourhoods, and within the Riverwalk Precinct.



Sustainability & Resilience

- Exhibit sustainable best practices and climate change leadership through innovative design, robust materials and low maintenance and cohesive management frameworks.
- Celebrate, enhance, create and integrate ecological spaces and habitat, improving resiliency to climate change, increasing our natural capital and protecting valuable natural resources and ecosystems for the future.



Safety & Accessibility

- Create a continuous trail that provides a clear, safe and intuitive route through Riverwalk.
- Provide clear and safe access all levels of mobility and ability.
- Implement a unified wayfinding and signage strategy.
- Create a lighting strategy addresses public safety objectives while achieving the highest standards of habitat protection, reduction of light pollution and energy efficiency.



Urban Design Master Plan (UDMP)

The Resilience, Sustainability, and Healthy Development Framework

- Will further explore look ability for:
 - natural heritage enhancements: vegetation, ecology, water, air
 - resilience: climate change mitigation and adaptation
 - sustainable development: low impact development, storm water management, energy conservation/green energy, urban agriculture
 - healthy development: connectivity, active living, social equity, mental health, access to nature
- Develop key indicators/metrics, performance monitoring in conjunction with City efforts to grow and evolve sustainability metrics
- Riverwalk as Brampton's pilot/demonstration project for sustainability and resilience, a landmark Eco Space
- Planned to be followed by a comprehensive Resilience, Sustainability and Healthy Development Plan complete with measurements, indicators in 2021



The Riverwalk Program: **Brampton Eco Park**

Brampton Eco Park = a *network* of sustainable urban/green spaces, referred to as Eco Spaces, that better integrate residents with the natural environment

Guided by 7 principles:

- 1) Maximize ecological value
- 2) Provide opportunities for social services
- 3) Make nature visible
- 4) Design with nature
- 5) Integrate with surrounding community
- 6) Support innovation
- 7) Reflect local identity



Eco Spaces:

- a. enhance and maintain healthy natural systems and processes
- b. integrate opportunities for meaningful social and environmental interactions and experiences
- c. strive to incorporate the 7 guiding Eco Park principles.

Opportunity to create Riverwalk as a premier Eco Space

Examples of Upcoming Opportunities



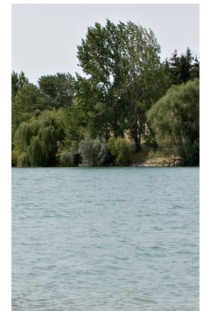
Jefferson, Jordan, and Jayfield Park and Channel Rehabilitation



CVC Trailhead Eco Park

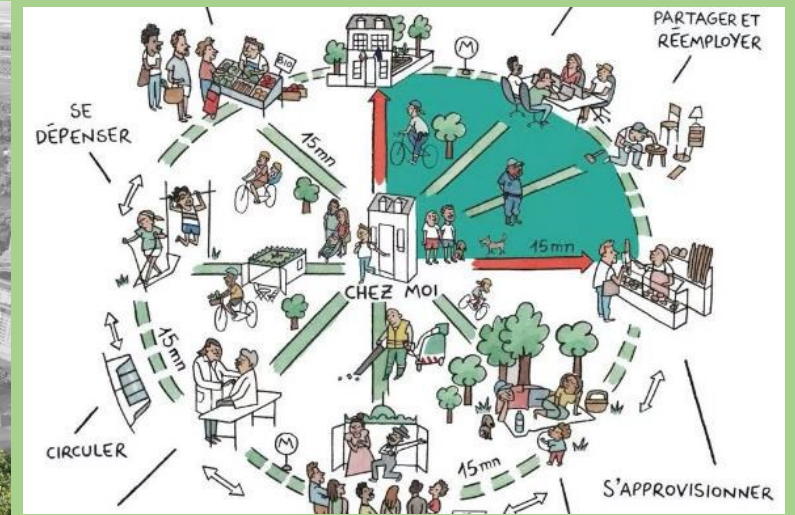


Brampton Riverwalk Project



Lake Rehabilitation

The Riverwalk: Resilience, Sustainability, Healthy Development



Key current issues arising from pandemic lessons:

- Access to nature and open space
- Access to affordable housing
- Access to sustainable mobility
- Access to amenities

+

The “new” economy

Post-pandemic City Opportunities



Riverwalk Area: Resilient, Sustainable, Healthy Development Opportunities

Peel Memorial Health Centre:
access to community health, employment

Etobicoke Creek trail:
AT, active living

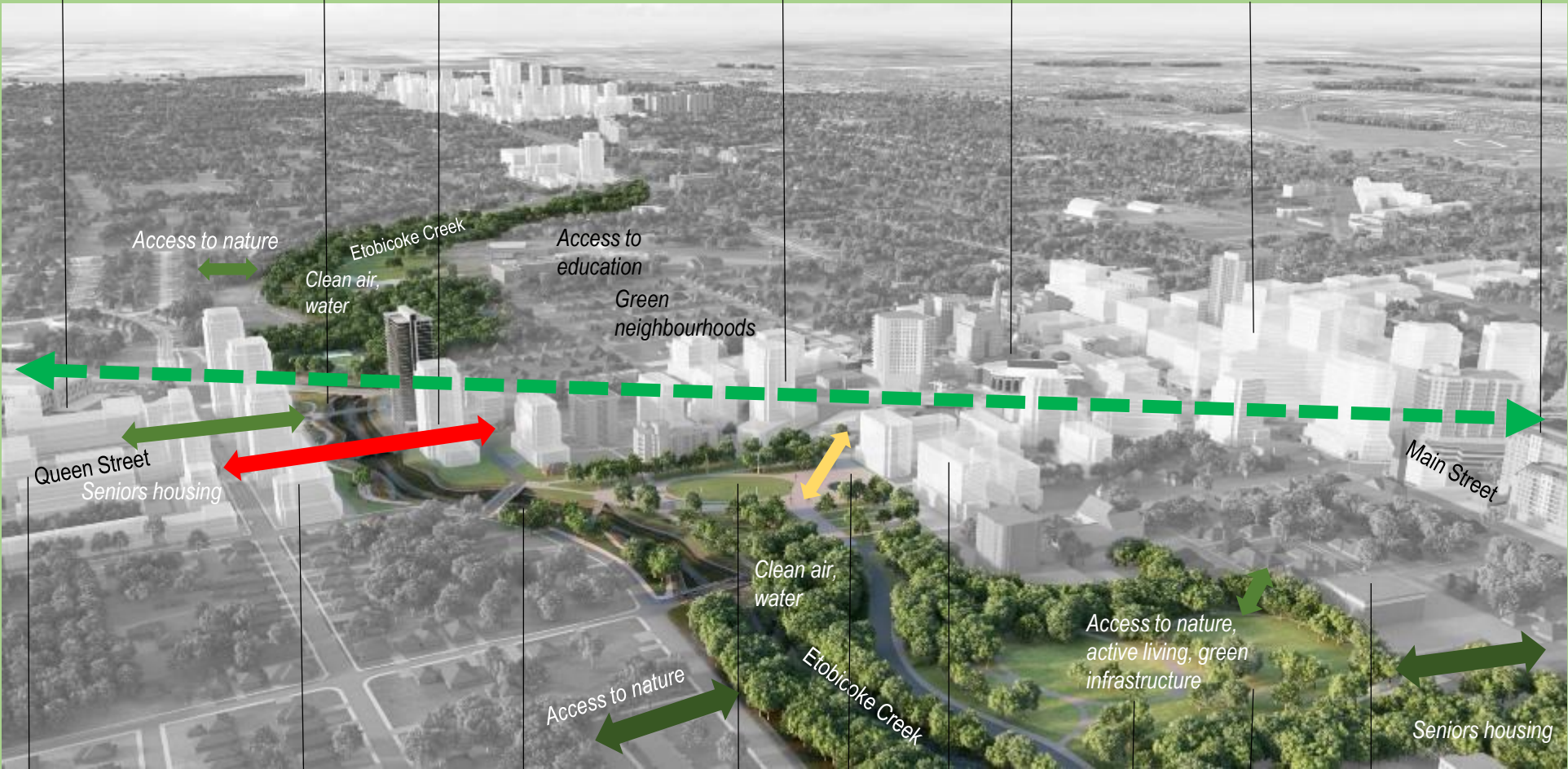
Innovation Corridor,
Rapid Regional and local
Transit

Retail, services,
affordable
housing

Institutional core, mixed
use, employment
services

Innovation Centre:
entrepreneur space, employment

Downtown Mobility Hub:
regional and local transit



Health
based development,
seniors care and
housing

Queen Street High Order
Transit: intensification,
Transit Oriented Dev.
affordable housing

Etobicoke Creek flood
mitigation; public safety
Riverwalk trail: AT,
active living

Rosalea Park: Public
/event space, physical
distancing, social
health, active living

Mixed use
development,
affordable housing
Low impact dev.

Etobicoke Creek
valley/ parks system:
access to nature,
open space, physical
distancing opportunity

Access to improved
public amenities (CPS
Community Centre)

Program Timelines



2011-14

Special Policy Area Amendment

Special policy for Downtown Brampton that clearly articulates development opportunities and requirements

2013-18

Feasibility Studies

2018-20

Flood Protection Environmental Assessment (EA)

EA to assess solutions for flood protection in the Downtown – led by TRCA in partnership with the City

APPROVED SEPTEMBER 2020

2019

Economic Impact Study

Study to identify the full economic benefits to unlocking development in downtown Brampton.

2019-21

Urban Design (Open Space) Master Plan (UDMP)

Study to complement the EA, identify open space and public realm, resilience, sustainability opportunities, programing, park and trails design concepts

Funding for the Flood Protection secured with Federal and City contributions

2021-23

Detailed Design (based on the EA approved solutions and UDMP)

2024

Potential Start of Construction*

Construction could commence as early as 2024, pending design approvals and project funding

The Riverwalk Project: Conclusion

When completed the Riverwalk will:

- Protect from flood and disasters
- Revitalize downtown and the city
- Trigger infrastructure renewal
- Generate employment, attract people and investment
- Build community, support diversity, bring people together
- Develop central park system, contribute to Brampton Eco Park
- Make a more resilient, sustainable, and healthy Downtown
- Support diversity and culture, improve social balance
- Stimulate new approaches, innovation, change



The Riverwalk Project **Next Steps**

- Urban Design Master Plan concepts development and finalization
- Detailed design and associated work
- Advocacy, engagement, communication
- Construction

Questions?

Earlier artist rendering

EAC Sub-Committee Membership List

(updated Nov.6, 2020)

Work Plan Sub-Committee

Akeem Gardner
David Laing
Tamsen Metcalfe
Davika Misir
Vipul Shah
Stacey Wilson

Engagement/Outreach Sub-Committee

Tamsen Metcalfe
Davika Misir
Sherry-Ann Ram
Stacey Wilson

Events Sub-Committee

Preethi Anbalagan
Akeem Gardner
Rajbalinder Ghatoura
Jafir Jaferi

Grow Green Network Sub-Committee

Harripaul Bridgemohan
Rajbalinder Ghatoura
David Laing
Davika Misir
Stacey Wilson

Environment Advisory Committee

2021 Schedule of Meetings

Note: All meetings are scheduled to commence at **6:00 p.m.** and will be held virtually using the Cisco Webex Virtual Meeting Platform, until in-person meetings resume.

Meeting Dates
February 9
April 13
June 8
August 10
October 12
December 7

Reminder: If you are unable to participate in a meeting, please contact Sonya Pacheco, Legislative Coordinator, by email at sonya.pacheco@brampton.ca at your earliest possible convenience.