

**February 11, 2014**  
**Council Committee Room**  
**4<sup>th</sup> Floor, City Hall**

**Members Present:** City Councillor John Hutton, Council Representative on the Credit Valley Conservation Authority (CVC) **(Co-Chair)**  
Jayne Pilot, Industry/Business Member **(Co-Chair)**  
City Councillor Bob Callahan, Council Representative on the Toronto Regional Conservation Authority (TRCA)  
Ian Drever, Development Industry  
Pauline Dykes, Academic Community  
Kelly Crawford, Citizen Member  
David Laing, Citizen Member  
Francis Sim, Citizen Member

**Members Absent:** Regional Councillor Paul Palleschi, Chair of the Planning, Design and Development Committee (vacation)

**Staff Present:** Susan Jorgenson, Manager, Environmental Planning, Planning and Infrastructure Services  
Michael Hoy, Environmental Policy Planner, Planning and Infrastructure Services  
Shauna Danton, Legislative Coordinator, City Clerk's Office, Corporate Services

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The meeting was called to order at 3:40 p.m., and adjourned at 5:58 p.m.

After due consideration of the matters placed before this Committee, the members beg leave to present its report as follows:

Item	Recommendation
<b>A. EPA001-2014</b>	<b>Approval of Agenda</b>
<b>B.</b>	<b>Conflicts of Interest</b>
<b>C.</b>	<b>Previous Minutes</b>
<b>D 1. EPA002-2014</b>	<b>Peel Region Channel Remediation Strategy</b>
<b>D 2. EPA003-2014</b>	<b>Alfred Kuehne Natural Channel Design</b>
<b>D 3. EPA004-2014</b>	<b>Heart Lake Road Ecology Program Update</b>
<b>E 1. EPA005-2014</b>	<b>Brampton Environmental Planning Advisory Committee Terms of Reference (File G25 EN)</b>
<b>E 2. EPA006-2014</b>	<b>Brampton Environmental Planning Advisory Committee Symposium (File G25 EN)</b>
<b>F.</b>	<b>Environmental Ideas</b>
<b>G.</b>	<b>Other New Business</b>
<b>H 1. EPA0007-2014</b>	<b>Urgent Request for Resolution Against a nuclear Waste Dump (File G25 EN)</b>
<b>I.</b>	<b>Question Period</b>
<b>J.</b>	<b>Public Question Period</b>
<b>K. EPA008-2014</b>	<b>Adjournment</b>

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City Councillor John Hutton, Council Representative on the Credit Valley Conservation Authority (CVC) (Co-Chair)

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Jayne Pilot, Industry/Business Member (Co-Chair)

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**A. Approval of Agenda**

EPA001-2014      That the agenda for the Brampton Environmental Planning Advisory Committee Meeting of February 11, 2014, be approved as amended as follows:

To add:

- H 1.    Correspondence from Frank Fernandez, Stop the Great lakes Nuclear Dump, dated February 11, 2014, re: **Urgent Request for Resolution Against a Nuclear Waste Dump** (File G25 EN)

Carried

**B. Conflicts of Interest - nil**

**C. Previous Minutes**

- C 1.    Minutes of the **Brampton Environmental Planning Advisory Committee Meeting of November 26, 2013**

The subject minutes were considered by Planning, Design and Development Committee on January 27, 2014 and approved by Council on January 29, 2014. The minutes were provided for the Committee's information.

**D. Delegations/Presentations**

- D 1.    Presentation by Christine Tu, Senior Aquatic Ecologist, Toronto and Region Conservation Authority, re: **Peel Channels Naturalization Program** (File G25 EN)

Christine Tu, Senior Aquatic Ecologist, Toronto and Region Conservation Authority, provided a presentation on the Peel Region Channel Remediation Strategy, which included the following topics:

- Project background
- Who is involved
- Project goals
- Study area
- Evaluation tool
- Results for Spring Creek
- Implementation steps

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Ms. Tu explained that the Toronto and Region Conservation Authority has conducted an examination of concrete lined channels in Brampton that are in need of extensive repair and maintenance as a result of failing infrastructure and impacts from storm water runoff. The Peel Region Channel Remediation Strategy has identified opportunities to remediate failing concrete lined, straight channels to naturalized watercourses. A naturalized watercourse includes increased vegetation, planted trees and shrubs to enhance the habitat value, ecological functions required for a healthy system and rocks and logs to stabilize the channel banks. The existing environment will also be enhanced by providing greater cover for bird, mammal and amphibian species in the area. The priorities of the program include flood and storm water management, infrastructure protection and improvement, natural heritage management, parks and recreation, watershed and human health, and increased system resiliency to urban impacts and intense weather conditions. The study area for the project focused on the Spring Creek Subwatershed, a tributary of the Etobicoke Creek.

Committee discussion of the matter included:

- Scope of channel project in Peel Region
- Sustainability of naturalized channels
- Pesticide run-off management
- Provincial and federal involvement
- Liability and constrictions
- Effect on infrastructure
- Chinguacousy Park pond naturalization
- Committee support in kind of the channel remediation strategy and Spring Creek subwatershed project
- Recommended use in Brampton hardened channel remediation initiatives
- Staff report on budget implications of a pilot project

The following motion was considered:

- EPA002-2014
1. That the presentation by Christine Tu, Senior Aquatic Ecologist, Toronto and Region Conservation Authority, to the Brampton Environmental Planning Advisory Committee Meeting of February 11, 2014, re: **Peel Channels Naturalization Program** (File G25 EN), be received; and,
  2. That the Brampton Environmental Planning Advisory Committee support the Toronto and Region Conservation Authority undertaking a cost benefit detailed analysis for a pilot project on Spring Creek; and,

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3. That staff report back to the Brampton Environmental Planning Advisory Committee on the results of the Toronto and Region Conservation Authority cost benefit detailed analysis at a future meeting.

Carried

- D 2. Presentation by Rick Portiss, Manager, Environmental Monitoring Projects, Toronto and Region Conservation Authority, re: **Alfred Kuehne Natural Channel Design** (File G25 EN)

Rick Portiss, Manager, Environmental Monitoring Projects, Toronto and Region Conservation Authority, provided a presentation on the Alfred Kuehne Natural Channel Design which included the following topics:

- Implementation of natural channel design and restoration
- Location
- Pre-existing conditions
- Applied geomorphic principals
- Channel habitat and floodplain enhancement
- Floodplain wetlands
- Bioengineering and plantings
- Bypass channel
- Costs, process, turbidity and effort
- Channel morphology
- Lessons learned – Bio-engineering, boulder weirs and modular construction
- Before and after
- Stream features
- Treatment and habitat structures
- Native trees and shrubs
- Environmental monitoring
- Fisheries results
- Summary and partners

Mr. Portiss explained that the Alfred Kuehne Natural Channel Design is a stream restoration project that stretches 400 metres between Steeles Avenue and Alfred Kuehne Boulevard, along Spring Creek, a tributary of the Etobicoke Creek. The project includes removal of the impervious concrete lined channel, restoration and naturalization of the creek, restoration and enhancement of approximately 1,200 metres of valley lands along the creek and planting approximately 1000 trees and 3000 shrubs in the valley lands. The majority of the riparian and channel naturalization work has been completed and the remaining planting is anticipated to be completed in the spring of 2014. The Toronto and Region Conservation Authority will conduct the post-project

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monitoring to gauge the success of the natural channel works and riparian restoration.

Committee discussion of the matter included the following:

- Natural material usage and features
- Settling of root systems and temporary measures
- Private land acquisition
- Native tree species
- Cost per square metre
- Amortization and duration of project
- Quantifying environmental systems
- Increase in wildlife and fish

Mr. Portiss presented a video of the Alfred Kuehne naturalized channel. The video was produced in the summer of 2013 during a time of heavy rains and flooding. Mr. Portiss stated that the naturalized channel, not yet stabilized at the time of the flood, survived the storm and incurred minimal damage.

The following motion was considered:

EPA003-2014                      That the presentation by Rick Portiss, Manager, Environmental Monitoring Projects, Toronto and Region Conservation Authority, to the Brampton Environmental Planning Advisory Committee Meeting of February 11, 2014, re: **Alfred Kuehne Natural Channel Design** (File G25 EN) be received.

D 3.    Presentation by Vince D'Elia, Project Manager, Etobicoke and Mimico Creek Watersheds, Toronto and Region Conservation Authority, re: **Heart Lake Road Ecology Program Update** (File G25 EN)

Vince D'Elia, Project Manager, Etobicoke and Mimico Creek Watersheds, Toronto and Region Conservation Authority (TRCA), provided a presentation on the Heart Lake Road Ecology Program which included the following topics:

- Overview
- About TRCA and context
- Etobicoke and Mimico Creek Watersheds
- Project location
- Road ecology
- Ontario statistics
- Road ecology issues
- Project motive and partners
- Phase one findings and volunteer contributions
- Media response

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- Phase two planning and partners
- Project findings and total fatalities – frog/toad, turtle, mammal, bird, snake
- Significance of results
- Monitoring effort
- Applying road ecology
- Target species
- Study area hot spots
- Mitigation recommendations
- Environmental site assessment
- Additional threats
- Next steps

Mr. D'Elia explained that in 2011, the Toronto and Region Conservation Authority, City of Brampton, Ontario Road Ecology Group, local businesses and volunteers initiated the Heart Lake Road Ecology Monitoring Project. Heart Lake Road bisects a provincially significant wetland, and in phase one of the project, the two kilometre stretch from Sandalwood Parkway to Mayfield Road was identified as a hotspot for wildlife road mortality. Wildlife mitigation was identified as a necessary measure to protect the biodiversity and species at risk. Phase two of the study commenced in 2013 with the installation of three mock-culverts and wildlife directional fencing placed at the hotspots to determine the efficacy of the culverts in attracting and providing wildlife passage. Creation of "turtle beaches" has also been recommended as a mitigation effort. Volunteers monitored the study area from April 2, 2013 to September 30, 2013 and reported high numbers of road mortality. Mr. D'Elia noted that culvert mitigation is possible, but there are ecological and engineering complications as the road was built through a wetland and as a result, the road is sinking.

Committee discussion included the following topics:

- Community awareness
- Committee position and support
- Road signage
- Recognition of the wetland's importance
- Reduction of speed on Heart Lake Road
- Development of nearby lands
- Impact of development on traffic and wildlife
- Community based social campaign and raising awareness
- Unanimous support of recommendations by TRCA

The following motion was considered:

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- EPA004-2014
1. That the Presentation by Vince D’Elia, Project Manager, Etobicoke and Mimico Creek Watersheds, Toronto and Region Conservation Authority, to the Brampton Environmental Planning Advisory Committee Meeting of February 11, 2014, re: **Heart Lake Road Ecology Program Update** (File G25 EN) be received;
  2. That the Brampton Environmental Planning Advisory Committee support the Toronto and Region Conservation Authority mitigation recommendations to reduce wildlife vehicle interactions along Heart Lake Road;
  3. That staff be requested to secure funding and work with the Toronto and Region Conservation Authority to initiate mitigation strategies in 2014. Suggested work to include:
    - i. installation of oversized culverts (minimum of 1.5 metres in diameter or greater) to serve as a dedicated wildlife passage from east to west, located in identified wildlife “hot spot”
    - ii. installation of road surface grates connected to culvert to provide lighting and air-flow
    - iii. installation of permanent wildlife directional fencing
  4. That staff work with the Toronto and Region Conservation Authority to monitor and measure success of mitigation installations and develop a strategy and designs for remaining identified “hot spots”.
  5. That additional signage be installed along Heart Lake Road to raise awareness of the provincially significant wetland complex and wildlife at risk.
  6. That a stop sign be installed at the intersection of Heart Lake Road and Countryside Drive to reduce speeds and facilitate traffic calming.
  7. That staff report back to the Brampton Environmental Planning Advisory Committee on the status and future plans of the mitigation initiatives.

Carried



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**E. Reports/Updates**

- E 1. Verbal update from Susan Jorgenson, Manager, Environmental Planning, Planning and Infrastructure Services, and Michael Hoy, Environmental Policy Planner, re: **Brampton Environmental Planning Advisory Committee Terms of Reference** (File G25 EN)

Susan Jorgenson, Manager, Environmental Planning, Planning and Infrastructure Services, advised that as requested, staff provided Committee with terms of reference (TOR) from other municipal environmental advisory committees, via email. Ms. Jorgenson suggested that a subcommittee be formed to review the TOR and noted that staff would work with the subcommittee and assist in revising the current BEPAC TOR for adoption for the next term of council. Ms. Jorgenson advised that the City is in the process of finalizing the Environmental Master Plan (EMP) and that many recommended actions of the EMP are directed to the Brampton community (i.e. homeowners, businesses and private land owners). Ms. Jorgenson recommended that the committee consider community actions and work plans while revising the terms of reference.

Michael Hoy, Environmental Policy Planner, suggested that a Terms of Reference Workshop take place at the next Committee meeting.

Committee discussion included the following:

- Incorporating ideas and concepts discussed at the symposium
- Increasing citizen membership
- Partnership with environmental advocate groups
- Supporting conservation authorities
- Terms of reference workshop at the next committee meeting

The following motion was considered:

EAP005-2014                      That the verbal update from Susan Jorgenson, Manager, Environmental Planning, Planning and Infrastructure Services, and Michael Hoy, Environmental Policy Planner, to the Brampton Environmental Planning Advisory Committee Meeting of February 11, 2014, re: **Brampton Environmental Planning Advisory Committee Terms of Reference** (File G25 EN) be received.

Carried

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- E 2. Verbal update from Francis Sim, Committee Member, re: **Brampton Environmental Planning Advisory Committee Symposium** (File G25 EN)

Francis Sim, Committee Member, provided an update on the 2014 Environmental Symposium that included the following:

- Finalization of symposium logo
- Date set for May 3, 2014
- Will take place from 9 a.m. to 4:00 p.m.
- Symposium will be held in City Hall Atrium
- Layout and acoustics
- Task groups
- Key note speaker
- Susan Jorgenson and Michael Hoy, Co-MCs of the symposium
- Sponsorship and fundraising

Mr. Sim expressed gratitude for help and support from city staff.

The following motion was considered:

EPA006-2014                      That the verbal update from Francis Sim, Committee Member, to the Brampton Environmental Planning Advisory Committee Meeting of February 11, 2014, re: **Brampton Environmental Planning Advisory Committee Symposium** (File G25 EN) be received.

Carried

F.    **Environmental Ideas** - nil

G.    **Other/New Business** - nil

H.    **Correspondence**

- H 1. Correspondence from Frank Fernandez, Stop the Great Lakes Nuclear Dump, dated February 11, 2014, re: **Urgent request for Resolution Against a Nuclear Waste Dump** (File G25 EN)

The following motion was considered:

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- EPA007-2014      1.      That the correspondence from Frank Fernandez, Stop the Great Lakes Nuclear Dump, dated February 11, 2014, to the Brampton Environmental Planning Advisory Committee Meeting of February 11, 2014, re: **Urgent Request for Resolution Against a Nuclear Waste Dump** (File G25 EN) be received.

Carried

**I.      Question Period**

**J.      Public Question Period**

**K.      Adjournment**

- EPA008-2014      That the Brampton Environmental Planning Advisory Committee do now adjourn to meet again on Tuesday, May 13, 2014, at 3:30 p.m., or at the call of the Chair.

Carried