



## Regular Council Meeting

<b>To:</b>	Mayor and Council
<b>Date:</b>	June 15, 2020
<b>From:</b>	Karen Ellis, Planning Department
<b>Report Number:</b>	Department 2020-14
<b>Subject:</b>	Policy for Municipal Lands Tree Replacement

### Recommendations:

1. That the Tree Replacement Policy adopted by motion CW/15/09/08/08 be repealed;
2. That the Trees on Township Road Allowances policy adopted by motion CW/21/11/05/13 be repealed;
3. That Council adopt the Policy for Municipal Lands Tree Replacement attached hereto (Attachment No. 2);
4. That Township Staff and Council continue to educate the public and landowners on the Township's Policy for Municipal Lands Tree Replacement, the Tree Canopy and Natural Vegetation Policy, and the Woodlot, Tree Preservation, Replacement and Enhancement Policies in the Township of Cavan Monaghan Official Plan; and
5. That Council provide direction to Staff with respect to the preferred long-term approach to tree preservation and enhancement on private lands within the Township of Cavan Monaghan.

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### Overview:

On February 18, 2020, a Report was presented to Council regarding the adoption of a new Tree Replacement Policy. The Report is provided for reference as Appendix A at the end of this Report.

At the February 18, 2020 meeting, Council passed the following motion:

"R/18/02/20/06

Moved by: Huntley

Seconded by: Graham

That Council direct Staff to strengthen the language in the Municipal Lands Tree Replacement Policy attached by providing timelines and conformity with Townships existing policies and that it be brought back to Council for approval.

Carried.”

As per Council’s motion, the draft policy has been amended to:

- include a statement on the value of trees;
- include a link to the Township’s Tree Canopy and Natural Vegetation Policy and the Township of Cavan Monaghan Official Plan;
- recognize that saving a tree through proper pruning and maintenance is the first consideration vs. tree removal;
- require the preparation of a tree inventory for municipal lands in settlement areas within two (2) years of the adoption of the Policy;
- promote the replacement of trees prior to tree removal;
- require the planting of a tree in a suitable location on Municipal property within one (1) year of the tree removal if replacement has not already occurred; and
- require the planting of native, non-exotic and non-invasive species that are zone tolerant and protected by a tree maintenance program. Road salt tolerant species may be considered in certain locations in consultation with a professional arborist.

A copy of the revised draft policy is provided as Attachment No. 1 to this Report.

**Financial Impact:**

None at this time. The Public Works Department Operating Budget carries a line item for tree replacement. Budget will be needed in 2021 for the preparation of a municipal lands tree inventory and the required replacement trees and associated maintenance programs.

**Attachments:**

Attachment No. 1: Draft Policy for Municipal Lands Tree Replacement

Appendix A: Report Planning 2020-03


Respectfully Submitted by,

Reviewed by,

Karen Ellis, B.A.A.  
Director of Planning

Yvette Hurley  
Chief Administrative Officer

## Attachment No. 1: Draft Policy for Municipal Lands Tree Replacement

 <p><b>Policy for Municipal Lands Tree Replacement</b></p>			
<b>Policy Title:</b>	Tree Replacement	<b>Policy Number</b>	
<b>Effective Date:</b>		<b>Revision Number:</b> <b>Replaces:</b>	New Policy
<b>Prepared By:</b>	Planning Department	<b>Approved By:</b>	

## Policy for Municipal Lands Tree Replacement

### Policy Statement

This policy describes how the Township of Cavan Monaghan will protect and enhance the tree canopy on municipal lands within the Township. This policy should be read and implemented in conjunction with policy 2019-02 the Township of Cavan Monaghan Tree Canopy and Natural Vegetation Policy and the Township of Cavan Monaghan Official Plan.

### Legislative Authority

N/A

### Purpose or Procedure

Healthy trees help reduce air and noise pollution; assist with production and conservation of energy; filter water; stabilize soils; help prevent wind erosion; provide habitat and food for wildlife such as birds; supply oxygen in the air; help absorb carbon dioxide; improve human health by providing shade and add beauty to the community. Mature trees can also provide an important stormwater management function by reducing infrastructure degradation.

The preservation and protection of trees shall be an important consideration in all municipal operations. Saving a tree through proper pruning and maintenance shall be the first consideration vs. tree removal.

A municipal tree inventory and management policy for settlement areas and public parks shall be completed within two (2) years of the adoption of this Policy. The inventory and management policy shall be prepared with the support and in consultation with a professional arborist.

Using the tree inventory and management policy, the Township will strive to plant replacement trees prior to tree removal wherever and whenever appropriate and possible. All tree removal projects shall contain a tree replacement component which requires the planting of a tree in a suitable location on Municipal property within one (1) year of the tree removal.

The replacement ratio shall be one to one at a minimum.

As per Tree Canopy and Natural Vegetation Policy 2019-02, replacement trees shall be native, non-exotic and non-invasive species, be zone tolerant and shall be protected by a tree maintenance program. Notwithstanding this requirement, road salt resistant tree varieties may be required in certain locations. Salt resistant tree species for these locations will be determined in consultation with a professional arborist.

Replacement trees shall be located so that such replacement does not interfere with any public utility appurtenances, such as overhead/underground utility lines, and /or poles, traffic control devices, or intersection sight lines, nor impede the growth of abutting trees already established. If the Director of Public Works or designate confirms that the replacement location is deemed unsuitable per the above, an alternate location shall be identified prior to replacement.

## **Appendix A:      Report Planning 2020-03**



### Regular Council Meeting

<b>To:</b>	Mayor and Council
<b>Date:</b>	February 18, 2020
<b>From:</b>	Karen Ellis, Planning Department
<b>Report Number:</b>	Department 2020-03
<b>Subject:</b>	Tree Replacement Policy (Municipal Lands)

#### Recommendations:

1. That the Tree Replacement Policy adopted by motion CW/15/09/08/08 be repealed;
2. That the Trees on Township Road Allowances policy adopted by motion CW/21/11/05/13 be repealed;
3. That Council adopt the Municipal Lands Tree Replacement Policy attached hereto (Attachment No. 5);
4. That Township Staff and Council continue to educate the public and landowners on the Township's Municipal Lands Tree Replacement Policy, the Tree Canopy and Natural Vegetation Policy, and the Woodlot, Tree Preservation, Replacement and Enhancement Policies in the Township of Cavan Monaghan Official Plan; and
5. That Council provide direction to Staff with respect to the preferred long-term approach to tree preservation and enhancement in the Township of Cavan Monaghan.

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#### Overview:

On June 25, 2019 Council received a delegation from George Raab regarding the implementation of a tree cutting by-law for the Township. The notes from the delegation are provided as Attachment No. 1 to this Report.

At the meeting, Council passed the following motion:

"R/17/06/19/25  
Moved by: Huntley  
Seconded by: Graham  
That Council direct staff to bring back a report on a tree cutting bylaw."

## **Policy Framework**

### **1. Trees on Township Road Allowances**

In 2005, the Township of Cavan-Millbrook-North Monaghan approved a policy for trees on Township road allowances (CW/21/11/05/13). The policy reads as follows:

“For road construction projects, tree removal on Township real allowance should be left to the discretion of the Consulting Engineers to address concerns about road widening, safe sight lines and general public safety. If all concerns are addressed and met and if at all possible, the Engineers should consider leaving mature growth trees, in good health, in place on the road allowance.”

### **2. Tree Replacement Policy**

In 2008, the Township of Cavan Monaghan approved a Tree Replacement Policy (CW/15/09/08/08). The policy reads as follows:

“That the Township of Cavan Monaghan does not allow, encourage or promote tree replacement or planting of new trees within the municipal-right-of-way.”

### **3. Greater Peterborough Area Climate Change Action Plan**

Chapter 4 of the September 30, 2016 Greater Peterborough Area Climate Change Action Plan contains a number of strategies for the Township of Cavan Monaghan. Strategy 1.3: Protect and enhance natural assets includes the following strategies:

“Primary Action	Support the development and implementation of a regional Natural Heritage System Plan (City and County with Townships).
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Supporting Actions/ Policies

Supporting Policies

- Investigate the possibility of a tree replacement policy.

Supporting Actions & Initiatives

- Support and promote location Conservation Authorities’ tree planting programs to encourage planting trees in public and private property.
- Support location Conservation Authorities to deliver planting and restoration projects at strategic high priority areas with climate read species.”

### **4. Township of Cavan Monaghan Tree Canopy and Natural Vegetation Policy 2019-02**

On March 1, 2029 Council approved the Tree Canopy and Natural Vegetation Policy for the Township. The Policy identifies how the Township of Cavan Monaghan will protect and enhance the tree canopy and natural vegetation in the Municipality. A copy of the Policy is provided as Attachment No. 2 to this Report.

**5. Peterborough County Tree Canopy and Natural Vegetation Protection Policy PLG 2019-009**

On May 15, 2019, Peterborough County Council passed Policy # PL-02, a Tree Canopy and Natural Vegetation Protection Policy. The purpose of the policy is to confirm the County's position and efforts for protecting and enhancing tree canopy and natural vegetation, and, to satisfy the requirements of Bill 68. A copy of the Policy is provided as Attachment No. 3 to this Report.

**6. Township of Cavan Monaghan Official Plan**

Section 3.26 of the Township Official Plan contains significant policies on Woodlot, Tree Preservation, Replacement and Enhancement. The policies are provided as Attachment No. 4 to this Report.

The policies in this section do pertain primarily to lands subject to Planning Act applications.

**7. Municipal Act**

Section 135(1) of the Municipal Act enables a local municipality to prohibit or regulate the destruction or injuring of trees in woodlands designated in the by-law. Woodlands are defined as "woodlands as defined in the Forestry Act, 2001 that are on hectare or more in area".

An upper tier municipality may delegate all or part of its power to pass a by-law respecting the destruction or injuring of trees in woodlands to one or more of its lower-tier municipalities with the agreement of the lower-tier municipality. In passing a by-law regulating or prohibiting the injuring or destruction of trees in woodlands, a municipality must have regard to good forestry practices as defined in the Forestry Act, 2001.

A municipality may, in a by-law passed under Section 135, require that a permit be obtained to injure or destroy trees and impose conditions to a permit, including conditions relating to the manner in which destruction occurs and the qualifications of person authorized to injure or destroy trees.

**Discussion**

The issue of tree replacement on municipal lands is relatively straightforward. A policy has been drafted to address tree replacement on municipal lands. A copy of the draft policy is provided as Attachment No.5 to this Report.

Regulating tree preservation and protection on private lands is more complicated. Firstly, the Municipal Act permits a lower tier municipality to regulate woodlots less than 1 hectare (2.47 acres) in size. Delegated authority from the upper tier government to the lower tier is required to regulate private woodlands over 1 hectares (2.47 acres) in size.

Secondly, a review of a number of existing by-laws within the Province of Ontario indicates that prohibiting the injury or destruction of trees on private lands in the municipality generally involves a permitting process, the application of permit fees, and the use of qualified personnel to evaluate and process permit applications. Qualified personnel are also required for enforcement of a By-law.



If Council is interested in pursuing a Tree Preservation By-law for private lands, there are a number of approaches available to the Township.

The first approach is to ask the County of Peterborough to develop a Tree Preservation By-law for the protection of trees within woodlands larger than 1 hectare (2.47 acres). The County will then be responsible for the implementation of the By-law. If Council chooses this approach, the Township can also develop and implement a municipal by-law to extend protection to privately owned woodlots less than 1 hectare (2.47 acres) in size and to those lands that don't fall within the scope of the County By-law.

The second approach is to develop a comprehensive Municipal Tree Preservation By-law that includes woodlots and woodlands. Policies will be included to address tree removal, protection, replacement and enhancement, and penalties for non-compliance. This approach will not rely on a County by-law. With this approach, the Township will have to formally request delegated authority from Peterborough County, in accordance with Section 135(8) of the Municipal Act, 200, prior to passing the by-law. If delegated authority is received from the County, the Township will be responsible for developing, implementing and enforcing the by-law.

The last approach is to review and revise the Township's Site Alteration By-law. The by-law will update and consolidate all by-laws pertaining to site alteration and tree preservation. The by-law will apply to all lands in the Township, regardless of size, with appropriate exceptions included as necessary. With this approach, the Township will have to formally request delegated authority from Peterborough County. As noted above, if delegated authority is received, the Township will be responsible for developing, implementing and enforcing the by-law.

Community consultation and stakeholder engagement is recommended for all of the above-noted approaches.

**Financial Impact:**

None at this time.

**Attachments:**

- Attachment No. 1: George Raab Delegation
- Attachment No. 2: Township of Cavan Monaghan Tree Canopy and Natural Vegetation Policy 2019-02
- Attachment No. 3: Peterborough County Tree Canopy and Natural Vegetation Protection Policy PLG 2019-009
- Attachment No. 4: Section 3.26 Township of Cavan Monaghan Official Plan
- Attachment No. 5: Draft Municipal Lands Tree Replacement Policy

Respectfully Submitted by,

Reviewed by,

Karen Ellis, B.A.A.  
Director of Planning

Yvette Hurley  
Chief Administrative Officer

## Attachment No. 1: George Raab Delegation

To Mr Mayor and members of Council and whom ever else this may concern,,

In light of the number of the number subdivision plans and development pressures facing our township at this time I am concerned that the existing building restriction and environmental designations in our official plan do not protect developer owned lands from being clear cut.

Many of these lands in the Millbrook valley area through the Official Plan, do have restrictive environmental designations such as a **Significant Woodland Area**, a **Hazard Land Area**, a **Wetland Area**, a **Natural Heritage Evaluation Area**, or a **Natural Core Area**.

Some have are parts in a **Natural Heritage System** or a **Natural Linkage Zone** and others are in the **Oak Ridges Moraine**.

These designated areas cannot be built on but are no restrictions the prevent the clearcutting of the trees while present applications make their way through the lengthy approval process or future applications for development are being considered by the landowners.

Once the trees are removed or the the land altered the whole purpose of these environmental safeguards protecting significant features of our diminishing natural areas will be meaningless.

Something that has to be of concern as well is the unknown impact clearcutting woodlands throughout Millbrook will have on the complex hydrogeological systems that are present and particularly when conducted in the vicinity of the Millbrook wellheads which provide the municipal water supply.


I am asking the township to pass a tree cutting bylaw right away so that none of the designated areas mentioned above are to be disturbed in any way until all the required environmental assessments for any current or yet to be submitted development for these lands are done.

Only when exceptions to these enacted bylaws are approved can any cutting take place.

Sincerely,

George Raab  
53 King Street West.  
Millbrook.

## Attachment No. 2: Township of Cavan Monaghan Tree Canopy and Natural Vegetation Policy 2019-02

 <b>Tree Canopy and Natural Vegetation Policy</b>			
<b>Policy Title:</b>	Tree Canopy and Natural Vegetation Policy	<b>Policy Number</b>	2019-02
<b>Effective Date:</b>	March 1, 2019	<b>Revision Number: Replaces:</b>	New Policy
<b>Prepared By:</b>	Clerk's Department	<b>Approved By:</b>	Council

### Policy Statement

This policy shall identify how the Township of Cavan Monaghan will protect and enhance the tree canopy and natural vegetation in the municipality.

### Procedure

The Township of Cavan Monaghan currently has three (3) policy tools in place pertaining to the protection and preservation of trees and the tree canopy within the municipality.

- The Township of Cavan Monaghan Official Plan
- The County of Peterborough Official Plan
- The Township of Cavan Monaghan Parks and Recreation Master Plan

### Related Policy References

#### 1. The Township of Cavan Monaghan Official Plan

##### 3 General Development Policies

##### 3.26 Woodlot, Tree Preservation, Replacement and Enhancement

The Township will protect significant woodlands including areas within the Natural Heritage System and in Settlement areas.

When considering applications for site plan approval, plans of subdivision or condominium or rezoning that affect woodlots and tree cover in the Township, Council shall be satisfied that:

- a) Significant trees to be protected must be identified on a survey, and/or tree inventory, and within tree preservation and protection plans as prepared by a qualified tree professional;
- b) All significant trees as identified on sites that are subject to a development application, may not be removed, damaged, injured, pruned or destroyed in any way without the written approval of Township Council or delegated staff;
- c) Trees which are considered significant must be protected throughout the planning application and development process by adequate fencing to the satisfaction of the Township. Fencing may include temporary chain link fence or plastic construction fencing to be located at the greater of 2 metres from the base of the tree or at the outer edge of the tree canopy;
- d) The landowner and/or developer will be financially responsible for any damage or destruction done to any trees prior to, during and following construction. The Township may request the owner to post securities to ensure tree preservation for up to one year after completion of construction;
- e) Trees to be protected must exhibit good biological health and condition for long- term survival. All trees must be native, non-exotic and non-invasive species;
- f) Significant trees are to be protected in addition to trees located within a woodlot area, trees forming a cluster of trees (consisting of 5 or more trees and containing at least one significant tree) any significant trees defining a hedgerow (consisting of 5 or more trees);
- g) Other trees to be protected include any tree of historical significance, Celebration trees of any size and Special Status Trees planted to commemorate a special occasion or person;
- h) Replacement trees shall be protected by a tree maintenance program and shall be zone tolerant trees generally not susceptible to disease or pests. A variety of trees should be planted to reduce the potential for disease and pest problems associated with a mono-culture of a particular species;
- i) The Township will also require securities for the purposes of tree preservation, the amount of which will represent 100 percent of the value for the trees to be protected. In the case of significant woodlands the



security deposit will represent 20 percent of the total value of the woodlot. Securities may be released at the discretion of the Township, upon confirmation by the Township that the trees to be protected and preserved exhibit vigorous health and have not sustained any damage as a result of site development activities;

- j) It is intended that this policy will be adhered to for all new development sites in the Township. It is recognized however, that some trees may be removed or sustain damage as a result of construction or development and as such replacement plantings will be considered on the following basis:
  - i) Trees that have been identified to be protected but cannot be preserved due to development constraints can be removed, with the use of the "Aggregate Inch Replacement" method. (i.e. One 30 cm dbh tree is removed and is replaced by 2 trees of 15 dbh or 3 trees of 10 dbh); and
  - ii) Replacement trees should be planted in proximity to their removal, and efforts should be made to replace trees of the same species and size or replacement equivalent. However, where replacement of this nature is not practical, the Township may specify an alternate location where replacement trees may be placed.
- k) These policies are not intended to deal with tree plantations, nursery stock or development on lands that is permitted as of right without planning approvals in the Township.
- l) It is recognized that the mapping of Significant Woodlands on Schedule B and B1 is based on high level photography. For this reason the location and significance of the woodlands needs to be assessed on site and through consultation with the Conservation Authority and the Township. Where lands shown as Significant Woodlands on Schedule B and Schedule B-1 are determined to not be significant, development of the lands may proceed in accordance with the policies of this section of the Plan.

## **2. County of Peterborough Official Plan**

**Section 4.1 Natural Environment** of the County of Peterborough Official Plan supports the protection and enhancement of tree canopy and natural vegetation by stating:

"The County recognizes the important contribution that natural systems, natural heritage features and natural resources make to the social, economic, and environmental health of local municipalities. In this regard, the County has identified

[woodlands and valleylands] to ensure that the appropriate land use and resource management protection policies are applied to them."

Further the County Official Plan provides the following goals, objectives and policies in support of the protection and enhancement of tree canopy and natural vegetation:

#### **4.1.1 - Goal**

- to establish an approach which will protect and enhance natural features and ecological systems, conserve natural resources, reduce pollution and protect people and property from environmental hazards

#### **4.1.2 - Objectives**

- to identify, preserve and enhance natural areas and ecosystems;
- to protect natural heritage features and areas from incompatible development;
- to protect, improve or restore the quality and quantity of ground water and surface water features and their hydrologic functions;
- to encourage local municipalities within the same watershed to participate, coordinate and carry out similar environmental management initiatives and practices to promote conservation, protection, sustainability and enhancement of natural systems, features and resources.

#### **4.1.3 - Policies**

##### **4.1.3.1 - General**

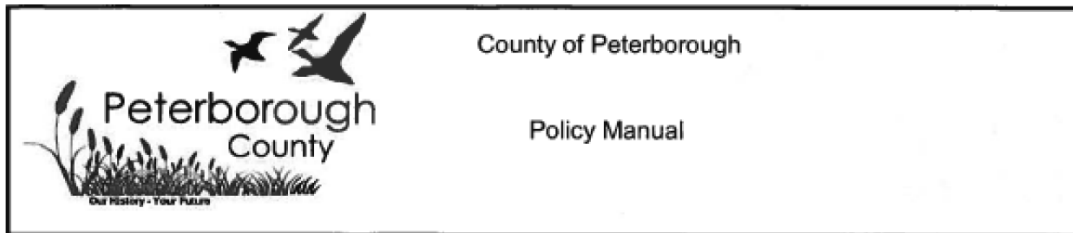
- Reforestation of valleylands, banks and steep slopes will be promoted and encouraged to reduce flooding and excessive soil erosion and to improve suitable fish and wildlife habitat.

### **3. The Township of Cavan Monaghan Parks and Recreation Master Plan**

#### **Objective 3.1**

To plan and implement parks and open spaces, community greening initiatives and to support and enhance the natural environment and engage residents in environmental stewardship opportunities.

**Attachment No. 3: Peterborough County Tree Canopy and Natural Vegetation  
Protection Policy PLG 2019-009**



Department:	<b>Planning</b>	Approved Leadership Team:	<b>NA</b>
Policy #:	<b>PL-02</b>	Originally Approved by Council:	<b>May 15, 2019</b>
Subject:	<b>Tree Canopy and Natural Vegetation Protection</b>	Revised by Council:	
Related By-laws:			

**Purpose:** To confirm the County's position and efforts for protecting and enhancing tree canopy and natural vegetation, and, to satisfy the requirements of Bill 68.

**Scope:** This policy acts as a guide regarding the efforts, actions and decisions by staff and Council for protecting and enhancing tree canopy and natural vegetation.

**Policy:** Policy is contained within Sections of the County Official Plan and the County Forest Management Plan 2010-2019, as previously adopted by By-laws.

## **County of Peterborough Official Plan**

### **Section 4.1 Natural Environment**

The County recognizes the important contribution that natural systems, natural heritage features and natural resources make to the social, economic, and environmental health of local municipalities. In this regard, the County has identified [woodlands and valleylands] to ensure that the appropriate land use and resource management protection policies are applied to them.

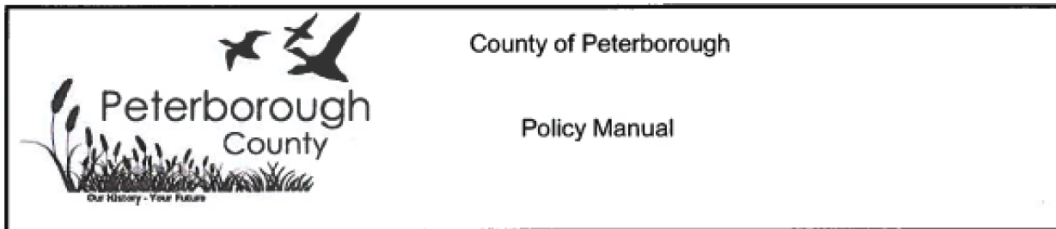
#### **4.1.1 – Goal**

To establish an approach which will protect and enhance natural features and ecological systems, conserve natural resources, reduce pollution and protect people and property from environmental hazards.

#### **4.1.2 – Objectives**

- To identify, preserve and enhance natural areas and ecosystems;
- To protect natural heritage features and areas from incompatible development;
- To protect, improve or restore the quality and quantity of ground water and surface water features and their hydrologic functions; and





- To encourage local municipalities within the same watershed to participate, coordinate and carry out similar environmental management initiatives and practices to promote conservation, protection, sustainability and enhancement of natural systems, features and resources.

#### **4.1.3.1 – General Policies**

- Reforestation of valleylands, banks and steep slopes will be promoted and encouraged to reduce flooding and excessive soil erosion and to improve suitable fish and wildlife habitat.

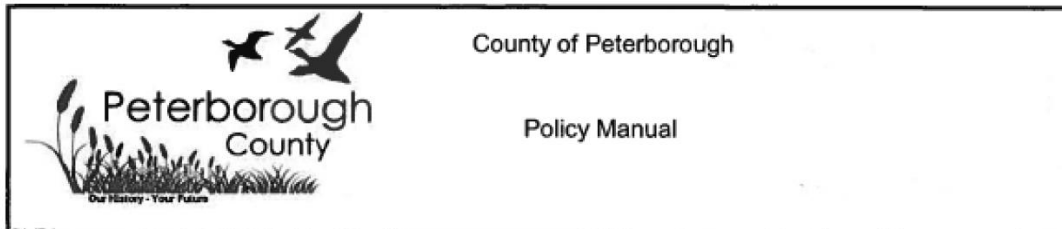
#### **4.1.3.4 – Natural Heritage Features**

- The diversity of natural features in an area, and the natural connections between them, and the long-term ecological function and biodiversity of natural heritage systems should be maintained, restored or, where possible, improved, recognizing the linkages between and among natural heritage features and areas, surface water features, and ground water features;
- Local plans will designate on map schedules either in separate categories or as part of an environmental constraint, or similar, designation, significant natural heritage features when information becomes available through the County and/or the Ministry of Natural Resources; and
- Local plans will prohibit development and site alterations within the following types of significant natural heritage features:
  - Significant wetlands; and
  - Significant portions of the habitat of endangered and threatened species.

Development and site alteration shall not be permitted on adjacent lands to the natural heritage features and areas listed above unless the ecological function of the adjacent lands has been evaluated in accordance with an environmental impact assessment as described in Section 4.1.3.1 and it has been determined that there will be no new negative impacts on the natural features or on their ecological functions.

#### **4.3.3.1 Rural and Cultural Landscape – General Policies**

Local municipalities should encourage and, where appropriate require, through the passage of tree cutting by-laws public and private land owners to maintain the forested appearance of the landscape.



#### **4.4 Shoreland Areas and the Waterfront**

##### **4.4.1 – Goal**

To improve and protect the waterfront areas in Peterborough County as a significant cultural, recreational, economic and natural environment resource and enhance land areas adjacent to the shore.

##### **4.4.3 – Policies**

- Tree cover and vegetation is encouraged to be retained along the shoreline to uphold the visual and environmental integrity of waterfront areas. Where development is proposed along shoreline areas, local official plans should contain policies relating to the incorporation of a natural undisturbed buffer between the water's edge and the development. Any such buffer shall be stipulated as being a specific depth from the water's edge and be represented as a percentage of the water frontage.

#### **6.2.2.10 - Forest Resources**

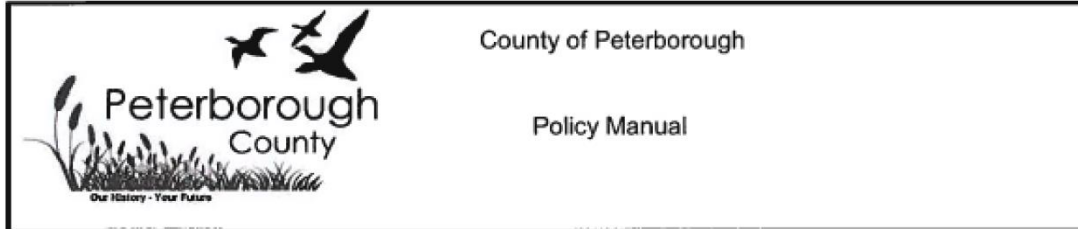
Landowners shall be encouraged to recognize the importance and value of forest resources as a source of wood and non-wood products as well as for their wildlife, recreation, aesthetic, environmental and soil and water conservation capabilities.

Landowners shall be encouraged to:

- Manage forest resources in accordance with proper forest management practices in consultation with the Peterborough County Stewardship Council;
- Retain existing tree cover as is deemed practical;
- Maintain and establish tree and shrub cover as appropriate, on low agricultural capability soils and in hazardous areas such as steep slopes, major drainage swales and flood prone areas, in order to reduce runoff rates and minimize soil erosion;
- Retain and establish windbreaks to reduce wind erosion and reduce energy consumption in rural buildings;
- Reforest non-productive farm land and unproductive cleared rural lands; and
- Efficiently harvest and use trees that must be removed to accommodate the placement of buildings, structures and roads.

#### **7.26.3 – Roadside Tree Plantings**

- Roadside tree plantings and vegetation cover outside the boundaries of municipal control should be preserved, established, or replaced, especially after construction or reconstruction, for erosion control as well as aesthetic reasons.



## **County Forest Plan 2010-2019**

### **5.2.1 Forest Operations Objectives and Recommended Strategies**

#### **Objective(s):**

- To ensure that both sustainable forestry practices and healthy ecosystems result from forest management operations and that all forest management activities are conducted in accordance with this plan; and
- To maintain, enhance and where necessary restore the sustainability of ecological features of the County Forest.

#### **Recommended Strategies:**

- Manage the forest in an ecologically responsible and sustainable manner;
- Implement silvicultural practices to maintain a healthy and sustainable forest; and
- Employ all silvicultural tools to manage the forest resources and work toward providing a sustainable and predictable supply of forest products from the Peterborough County Forest.

### **5.2.2 Forest Renewal and Maintenance Objectives and Recommended Strategies**

#### **Objective(s):**

- To ensure that there are sufficient funds available to conduct and implement a sound resource management program;
- To apply the most appropriate and cost effective silvicultural treatment to each forest site to ensure that the forest is regenerated adequately and quickly;
- To ensure that all harvested lands are regenerated to the most silviculturally appropriate species by relying primarily on silvicultural systems that promote natural regeneration wherever possible and where necessary through artificial means; and
- To maintain the productivity of this forested area.

#### **Recommended Strategies:**

- Continue directing stumpage revenues into the Forest Reserve Account to ensure adequate funding is available to support silvicultural work;
- Ensure that the areas allocated for harvest are completed in a timely fashion and in a manner to facilitate forest renewal efforts;

- Employ appropriate silvicultural treatments to successfully regenerating the forest while ensuring that sound forest management and environmental practices continue on this tract of land;
- Use a blend of appropriate silvicultural treatments (harvest, renewal, maintenance) over time to develop a more balanced age class distribution and the desirable mix of species; and
- Continue the practice of matching site conditions to desirable tree species and where necessary and appropriate restore the site to tree species that are better suited.

#### **10.1 Fire Protection**

##### **Objective:**

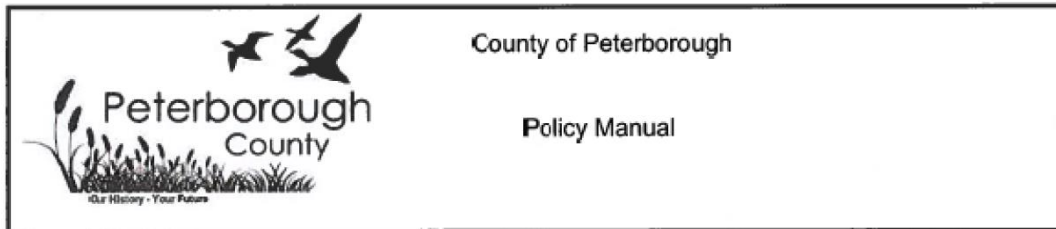
- Prevent personal injury or loss of life and minimize damage to the resources of the Peterborough County Forest that may be the result of wildfire.

##### **Recommended Strategies:**

- Actively suppress all wildfires;
- Implementation of management actions such as hazard reduction on an "as need basis";
- Limit or restrict management activities in the County Forest during extremely dry conditions; and
- Ensure contractors working in the County Forest have the necessary fire suppression equipment given the size and scope of the operations taking place, contact information for an emergency.

Forest management activities to reduce fire threats or risks within the County Forest may include:

- Thinning (especially plantations) to reduce stand densities and promote height growth to reduce the risk of crown torching and crown fires;
- Slash management strategies including the lopping of tops and branches and in some instances distributing the slash over the harvest-thinning site (case by case basis);
- Stand improvement and sustainable harvesting activities to maintain a healthy, vigorously growing forest; and
- Prescribed burning and in combination with thinning and harvesting could be considered but not normally be recommended in the County Forest due to high costs and potential risks.



Other actions the County could consider undertaking reduce fire risks and enhance emergency responses may include but not limited to:

- Brushing the edge of the main roads;
- Graveling – grading main road up to the County house;
- Consider extending road maintenance activities north of the house; and
- Posting signs.

### **10.3 Invasive Plant Species**

Prevention and control strategies for invasive species may include but not limited to the following:

- Maintain a healthy forest environment by implementing sustainable forest management practices to reduce the susceptibility of the County Forest to invading species;
- Monitor the County Forest on a regular basis through normal resource management functions/ activities for early detection purposes. Report occurrences and seek advice from the Ministry of Natural Resources, Canadian Food Inspection Agency (insects);
- Develop specific treatment plans as required to manage and control invasive species if found in the County Forest;
- Increase the awareness of invasive species to the users of the County Forest through strategic messaging using a variety of communication products; and
- Incorporating prevention strategies as a condition of operational activities or harvesting contracts (equipment to be cleaned before entering the County Forest).

## **Attachment No. 4; Section 3.26 Township of Cavan Monaghan Official Plan**

### **3.26 WOODLOT, TREE PRESERVATION, REPLACEMENT AND ENHANCEMENT**

The Township will protect significant woodlands including areas within the Natural Heritage System and in Settlement areas.

When considering applications for site plan approval, plans of subdivision or condominium or rezoning that affect woodlots and tree cover in the Township, Council shall be satisfied that:

- a) Significant trees to be protected must be identified on a survey, and/or tree inventory, and within tree preservation and protection plans as prepared by a qualified tree professional;
- b) All significant trees as identified on sites that are subject to a development application, may not be removed, damaged, injured, pruned or destroyed in any way without the written approval of Township Council or delegated staff;
- c) Trees which are considered significant must be protected throughout the planning application and development process by adequate fencing to the satisfaction of the Township. Fencing may include temporary chain link fence or plastic construction fencing to be located at the greater of 2 metres from the base of the tree or at the outer edge of the tree canopy;
- d) The landowner and/or developer will be financially responsible for any damage or destruction done to any trees prior to, during and following construction. The Township may request the owner to post securities to ensure tree preservation for up to one year after completion of construction;




- e) Trees to be protected must exhibit good biological health and condition for long-term survival. All trees must be native, non-exotic and non-invasive species;
- f) Significant trees are to be protected in addition to trees located within a woodlot area, trees forming a cluster of trees (consisting of 5 or more trees and containing at least one significant tree) any significant trees defining a hedgerow (consisting of 5 or more trees);
- g) Other trees to be protected include any tree of historical significance, Celebration trees of any size and Special Status Trees planted to commemorate a special occasion or person;
- h) Replacement trees shall be protected by a tree maintenance program and shall be zone tolerant trees generally not susceptible to disease or pests. A variety of trees should be planted to reduce the potential for disease and pest problems associated with a mono-culture of a particular species;
- i) The Township will also require securities for the purposes of tree preservation, the amount of which will represent 100 percent of the value for the trees to be protected. In the case of significant woodlands the security deposit will represent 20 percent of the total value of the woodlot. Securities may be released at the discretion of the Township, upon confirmation by the Township that the trees to be protected and preserved exhibit vigorous health and have not sustained any damage as a result of site development activities;
- j) It is intended that this policy will be adhered to for all new development sites in the Township. It is recognized however, that some trees may be removed or sustain damage as a result of construction or development and as such replacement plantings will be considered on the following basis:
  - i) Trees that have been identified to be protected but cannot be preserved due to development constraints can be removed, with the use of the "Aggregate Inch Replacement" method. (i.e. One 30 cm dbh tree is removed and is replaced by 2 trees of 15 dbh or 3 trees of 10 dbh); and,
  - ii) Replacement trees should be planted in proximity to their removal, and efforts should be made to replace trees of the same species and size or replacement equivalent. However, where replacement of this nature is not practical, the Township may specify an alternate location where replacement trees may be placed.
- k) These policies are not intended to deal with tree plantations, nursery stock or development on lands that is permitted as of right without planning approvals in the Township.

- I) It is recognized that the mapping of Significant Woodlands on Schedule B and B1 is based on high level photography. For this reason the location and significance of the woodlands needs to be assessed on site and through consultation with the Conservation Authority and the Township. Where lands shown as Significant Woodlands on Schedule B and Schedule B-1 are determined to not be significant, development of the lands may proceed in accordance with the policies of this section of the Plan.



## Attachment No. 5: Draft Municipal Lands Tree Replacement Policy

 <p><b>TOWNSHIP OF CAVAN MONAGHAN</b></p> <p><i>Have it all. Right here.</i></p> <p><b>Policy for Municipal Lands Tree Replacement</b></p>			
<b>Policy Title:</b>	Tree Replacement	<b>Policy Number</b>	
<b>Effective Date:</b>		<b>Revision Number:</b>	New Policy
		<b>Replaces:</b>	
<b>Prepared By:</b>	Planning Department	<b>Approved By:</b>	

## Policy for Municipal Lands Tree Replacement

### Policy Statement

This policy shall cover the procedures required for the replacement of trees removed from Township owned lands.

### Legislative Authority

N/A

### Purpose or Procedure

The Public Works Department shall replace any Township tree that has been removed, provided that such replacement in the opinion of the Director of Public Works or designate does not interfere with any public utility appurtenances, such as overhead/underground utility lines, and /or poles, traffic control devices, or intersection sight lines, nor impede the growth of abutting trees already established.

If the replacement location is deemed unsuitable, per the above, an alternate location may be chosen at the discretion of the Director of Public Works or designate.

If possible, the replacement ratio shall be one to one. However, it may be increased at the discretion of the Director of Public Works or designate.