

**Tree Inventory and Preservation Plan Report  
2256 Mayfield Road  
Caledon, Ontario**

prepared for

**Caledon Terra Investments Inc.  
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prepared by



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KUNTZ FORESTRY CONSULTING Inc. Project P1346

## Introduction

Kuntz Forestry Consulting Inc. was retained by Caledon Terra Investments Inc. to complete a Tree Inventory and Preservation Plan Report in support of a development application for the property located at 2256 Mayfield Road in the Town of Caledon, Ontario.

The work plan for this study included the following:

- Prepare inventory of the tree resources over 15cm on and within ten metres of the proposed development;
- Evaluate tree saving opportunities based on proposed site plans and grading (if available); and,
- Document the findings in a Tree Inventory and Preservation Plan report.

Trees included were visually assessed for condition utilizing the following parameters:

**Tree #** - number assigned to trees that corresponds to Figure 1.

**Species** - common and botanical names provided in the inventory table.

**DBH** - diameter (centimeters) at breast height, measured at 1.4 m above the ground.

**Condition** - condition of tree considering trunk integrity (TI), crown structure (CS) and crown vigor (CV). Condition ratings include poor (P), fair (F), and good (G);

**Crown Die Back** – Percentage of dead branches within the crown.

**Drip Line** - Crown radius; and

**Comments** – Any other relevant tree condition information.

The results of the evaluation are provided below.

## Methodology

Trees measuring over 15cm DBH on and within ten metres of the proposed development were identified included in the tree inventory. Trees were located using a handheld GPS unit (Trimble GeoExplorer® 6000 series) accurate to ±1m. Trees included in the inventory were tagged using numbers 336-338. Tree locations are shown on Figure 1. See Table 1 for the results of the inventory.

## Existing Site Conditions

The subject property is currently occupied by farmland and forested areas to the north of the property. Tree resources exist in the form of natural generations. Refer to Figure 1 for the existing site conditions.

## Individual Tree Resources

The tree inventory was conducted on 7 September 2016. The inventory documented 3 trees on and within ten metres of the proposed development. Tree resources were limited to those within the natural heritage system to the north of the property. Refer to Table 1 for the full tree inventory and Figure 1 for the location of tree reported in the tree inventory.

Tree resources included in the inventory are Green Ash (*Fraxinus pennsylvanica*).

## Proposed Development

The proposed development includes the construction of a multi-block residential subdivision. The property will be developed in conjunction with neighbouring properties to the east and west. Refer to Figure 1 for the proposed development.

## Discussion

The following sections provide a discussion and analysis of development impacts, tree removal requirements and tree preservation relative to the proposed development.

### *Development Impacts/Tree Removals*

The removal of Trees 336-338 is required due to Emerald Ash Borer infestation. Refer to Figure 1 for the location of the proposed tree removals.

The existing woodlot was excluded from this study as it is outside of the 10m buffer; however, several dead and/or hazardous trees were identified within the woodlot and their removal is recommended at the future stage in the development process.

Please note:

- a) Any trees located on the property line or on the adjacent property that are proposed to be removed or pruned, will require written consent from the adjacent landowner. All correspondence is to be forwarded to the Town prior to any removals.
- b) Removal should occur outside of the breeding bird season (April 1-August 1). If this is not possible, clearance with an ecologist should occur prior to construction to ensure no loss of bird nests, egg, or unfledged young.

### *Tree Preservation*

The preservation of the existing woodlot will be possible with appropriate tree protection measures. The existing woodlot is assessed in *Environmental Impact Statement/Environmental Implementation Report*, dated July 2016 by Hensel Design Group. Tree preservation fencing must be installed prior to the commencement of earthworks to ensure trees identified for preservation are not impacted by the proposed development. Refer to Figure 1 for the location of prescribed tree preservation fencing, further tree preservation plan notes and the tree protection fencing detail. Sediment and erosion control fencing should be sufficient as tree protection fencing.

Please note:

- a) All trees within the development along with any required monitoring will be further reviewed at the detailed design stage. This document shall be further updated accordingly prior to the execution of the Grading Agreement.
- b) During construction and prior to Assumption of the subdivision by the Town, the consulting Arborist along with appropriate Town staff shall inspect the entire site. Any noted hazardous trees must be identified and removed prior to assumption. Any records of maintenance or removals are to be submitted to the Town of Caledon.

### Tree Compensation Planting

The Town of Caledon requires two tree compensation plantings for every tree removal (2:1 ratio of tree plantings to tree removal). Tree compensation planting is in addition to the standard required planting. If tree compensation cannot be accommodated for in the planting design, financial compensation shall be collected at a rate (per tree) as determined by the Town of Caledon.

### **Summary and Recommendations**

Kuntz Forestry Consulting Inc. was retained by Caledon Terra Investments Inc. to complete a Tree Inventory and Preservation Plan in support of a development application for 2256 Mayfield Road in Caledon, Ontario. A tree inventory was conducted and reviewed in the context of the proposed development plan.

The findings of the study indicate a total of 3 trees on and within ten metres of the proposed development. The removal of 3 trees is required due to Emerald Ash Borer infestation. The preservation of the existing woodlot will be possible with appropriate tree protection measures.

The following recommendations are suggested to minimize impacts to trees identified for preservation. Refer to Figure 1 for additional Tree Protection Plan Notes and tree preservation fence detail.

- Tree protection barriers and fencing should be erected at locations as prescribed on Figure 1. All tree protection measures should follow the guidelines as set out in the tree preservation plan notes and the tree preservation fencing detail.
- No construction activity including surface treatments, excavations of any kind, storage of materials or vehicles, unless specifically outlined above, is permitted within the area identified on Figure 1 as a tree protection zone (TPZ) at any time during or after construction.
- Branches that extend beyond prescribed tree protection zones that require pruning must be pruned by a qualified Arborist or other tree professional. All pruning of tree branches must be in accordance with Good Arboricultural Standards.
- Site visits, pre, during and post construction is recommended by either a certified consulting arborist (I.S.A.) or registered professional forester (R.P.F.) to ensure proper utilization of tree protection barriers. Trees should also be inspected for damage incurred during construction to ensure appropriate pruning or other measures are implemented.

**Respectfully Submitted,  
Kuntz Forestry Consulting Inc.**

Kaho Hayashi

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## References

Hensel Design Group. *Environmental Impact Statement/Environmental Implementation Report*. July 2016.

**Table 1. Tree Inventory**Location: 2256 Mayfield Road, CaledonDate: 7 September 2016Surveyors: KH

Tree#	Common Name	Scientific Name	DBH	TI	CS	CV	CDB	DL	Comments	Removal
336	Green Ash	<i>Fraxinus pennsylvanica</i>	~25, 25	P	P	P	80	5	Union at 0.3m but 1 stem is dead	X
337	Green Ash	<i>Fraxinus pennsylvanica</i>	15	F/G	F	PF	25	3	Crook (L), asymmetrical crown (M)	X
338	Green Ash	<i>Fraxinus pennsylvanica</i>	16.5	G	P	P	50	3		X

Codes	
DBH	Diameter at Breast (cm)
TI	Trunk Integrity (G, F, P)
CS	Crown Structure (G, F, P)
CV	Crown Vigor (G, F, P)
CDB	Crown Die Back (%)
DL	Dripline (m)
~ = estimate; (L) = light; (M) = moderate; (H) = heavy	