



TREE CONSERVATION REPORT

540 Lakehurst Road

Tree Conservation Report submitted as Partial
Requirements for a Building Permit Application, May
19, 2021

Dendron Forestry Services



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Tree Conservation Report v2.0

Submitted as part of Building Permit Application

Address: 540 Lakehurst Road
Date: May 19, 2021
Prepared by: Astrid Nielsen, RPF, ISA Certified Arborist ®
Prepared for: Karr-Ming Lee, karrminglee@gmail.com
Site Visit: February 23, 2021 and May 15, 2021

Introduction

This Tree Conservation Report has been prepared for Karr-Ming Lee, as partial requirements for the Building Permit Application submitted to the City of Ottawa. The objectives of this Tree Conservation Report are:

- To describe all trees over 10 cm on the site, recording their species, size, and current health condition
- To evaluate the impact of the trees by the proposed development and what the recommended action is (retain or protect)
- To provide recommendations on how to mitigate damage to retained trees during construction

Current Vegetation

The following is an inventory of all trees 10 cm or greater on the property and neighbouring property that may be impacted by development.



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Tree Inventory

Tree ¹	Species	Diameter at breast height (dbh)	Ownership ³	Condition	Action
1	Norway spruce (<i>Picea abies</i>)	24 cm	City	Good/fair; lean towards road, asymmetrical crown with most limbs on street side	Retain and protect
2	American elm (<i>Ulmus americana</i>)	16 cm	City	Fair	Retain and protect or contact city to remove
3	Apple (<i>Malus</i> spp)	28 cm	City	Poor; full of sap sucker holes, significant crown dieback	Retain and protect; contact city to remove
4	White spruce (<i>Picea glauca</i>)	28 cm	Jointly owned with 534 Lakehurst	Good	Retain and protect
5	White spruce (<i>Picea glauca</i>)	26 cm	Jointly owned with 534 Lakehurst	Good	Retain and protect
6	White spruce (<i>Picea glauca</i>)	34 cm	Jointly owned with 534 Lakehurst	Good	Retain and protect
7	Norway spruce (<i>Picea abies</i>)	38 cm	Jointly owned with 534 Lakehurst	Good	Retain and protect
8	White spruce (<i>Picea glauca</i>)	26 cm	Private	Good/fair; crook in trunk, lean towards neighbours house	Retain and protect
9	White spruce (<i>Picea glauca</i>)	30 cm	Jointly owned with 534 Lakehurst	Good	Retain and protect
10	White spruce (<i>Picea glauca</i>)	18 cm	Private	Fair; suppressed by other spruce	Retain and protect
11	White spruce (<i>Picea glauca</i>)	38 cm	Private	Fair/poor; suppressed by other trees; numerous large (recent) woodpecker holes	Remove based on health – Distinctive Tree Permit required
12	Balsam fir (<i>Abies balsamea</i>)	14 cm	Jointly owned with 534 Lakehurst	Good/fair	Retain and protect
13	Eastern white cedar (<i>Thuja occidentalis</i>)	18 cm	Private	Good/fair; thin crown	Retain and protect
14	Sugar maple (<i>Acer saccharum</i>)	88 cm	Jointly owned with 534 Lakehurst	Good; two co-dominant stems 44 cm each split at 2m, one stem leaning towards adjacent property	Retain and protect
15	Butternut (<i>Juglans</i>)	52, 55 cm	Private; jointly	Poor; butternut canker	Remove as soon as



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	<i>cinerea</i>)		owned with adjacent property owners	present throughout; 30% live crown, dead top, significant basal decay, weak junction at base with crack	possible once the 30 days review period for the Butternut Health Assessment is up – Distinctive Tree Permit required
16	Norway spruce (<i>Picea abies</i>)	20 cm (estimate)	Private	Good	Retain and protect
17	Lilac (<i>Syringa spp</i>)	3-9 cm (5 stems)	Private	Good	Retain and protect
18	Juniper (<i>Juniperus spp</i>)	11 cm	Private	Good	Retain and protect
19	Basswood (<i>Tilia americana</i>)	64 cm	Private	Fair; sapsucker holes throughout the trunk indicating tree is under stress and likely has presence of insects, 30% lean towards house	Remove; fair health, excavation will come within 2m from trunk, potential conflict with canopy and new house; Distinctive Tree Permit required
20	White spruce (<i>Picea glauca</i>)	34 cm	Private	Good	Retain
21	White spruce (<i>Picea glauca</i>)	16 cm	Private	Good	Retain
22	Eastern white cedar (<i>Thuja occidentalis</i>)	18 cm (estimate)	Private	Good	Remove; in footprint of new home
23	Silver maple (<i>Acer saccharinum</i>)	85 cm	Private	Good	Prune back branches overhanging house; protect if machinery will be used within CRZ
24	Basswood (<i>Tilia americana</i>)	44 cm	Jointly owned with 529 Lansdowne	Good; lean towards adjacent property	Retain and protect
25	Red maple (<i>Acer rubrum</i>)	85 cm	Private	Fair; canker 35X75 cm	Retain and protect
26	Red oak (<i>Quercus rubra</i>)	57 cm	City	Good; lean towards road, asymmetric crown (shaded by tree 25)	Retain and protect
27	White pine (<i>Pinus strobus</i>)	19 cm	Private	Fair; chlorosis (yellowing of needles), good structure	Remove; fair health, new driveway will be 1m from tree, and conflict with new services – no permit required
28	Butternut (<i>Juglans cinerea</i>)	69 cm	Adjacent property at 534 Lakehurst	Poor; canker present, 3.8 m from property line, 20% live crown, basal decay	Remove based on poor health and potential risk of failure – Distinctive Tree Permit required
29	Basswood (<i>Tilia</i>	40, 30 cm	Adjacent	Fair; heavy lean, one stem	Retain and protect



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	<i>americana</i>)	(estimate)	property at 534 Lakehurst	with significant cavity, 2 m from property line	
30	Silver maple (<i>Acer saccharinum</i>)	50 cm	Adjacent property at 534 Lakehurst	Fair; significant wound where old branch attachment was, 3 m from property line	Retain and protect

¹ Please refer to the attached grading plan for tree numbers. Note that the Tree Disclosure map includes a tree layer added to the grading plan (in pdf format) provided by the client. This layer includes only information about the trees and the original grading plan is not altered in this process.

² Critical Root Zone is an area around the trunk with a radius equivalent to 10 times the diameter of the trunk. This does not take into account infrastructure such as buildings and asphalt and it assumed the tree has no restrictions on root growth.

³ Ownership of the tree in this report is based on the information provided and should not be used as a determination of ownership. For ownership disputes, a survey should be relied on.

Proposed Development and Conserved Vegetation

Most of the trees on this site will be retained through the proposed development. Tree 22 is directly in the footprint of the new home, and although 19 is not within the footprint, it will lose a significant amount of roots as part of the excavation. Excavation will extend to approximately 2 m from the edge of the tree, and the tree has a significant lean towards the new home. Finally, there is a significant amount of sapsucker holes along the trunk of the tree indicating that the tree is under stress. Given all these factors, removal is recommended.

Tree 27 is a white pine that is showing signs of chlorosis as many of its leaves are yellowing. The proposed services are running directly underneath this tree, and removal is required. Originally, the services were proposed between tree 25 and 27 (further east), but in discussions with the development team, it was decided to move the services and driveway further towards the west and concentrate preservation efforts on the large maple, tree 25. The white pine is a smaller tree that is more easily replaced than the large maple.

There are two butternut trees that at the subject site – one in the back corner (tree 15) and one on adjacent property at 534 Lakehurst (tree 29). These trees are classified as endangered under Ontario's *Endangered Species Act, 2007, SO 2007, c 6*. As part of the requirements, an assessment was completed by Rose Fleguel, a qualified Butternut Health Assessor during the site visit on May 15th. She determined both butternuts to be a Category 1. A summary of Category 1 and its requirement as follows:

- A Category 1 tree is one that is affected by butternut canker to such an advanced degree that retaining the tree would not support the protection or recovery of butternut in the area in which the tree is located; and is considered “non-retainable”.
- During the 30 day period that follows your submission of this BHA Report to the MNRF District Manager, no Butternut trees (of Category 1, 2, or 3) may be killed, harmed, or taken, and MNRF may contact you for an opportunity to examine the trees.
- Category 1 trees may be killed, harmed or taken after the 30 day period that follows
- document entitled “Butternut Assessment Guidelines: Assessment of Butternut Tree Health for the Purposes of the Endangered Species Act, 2007”.



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The reports were submitted to the Ministry of Environment, Conservation & Parks (MECP) on May 16, and the 30-day waiting period will be June 16, 2021. After this, the trees can be removed with a Distinctive Tree Permit from the City of Ottawa.

The Tree Conservation Report map shows where the recommended protective fencing should go on site during all site works. Note that there is no fencing located along either edge of the site, however, it is recommended that if access by machinery to the rear yard is required, then a single route be planned in advance that minimizes disturbance to tree roots. If driving on the roots is unavoidable, apply *one* of the following mitigation measures to reduce any soil compaction by machinery:

- Place a layer of 6-12 inches (15 to 30 cm) of woodchip mulch to the area
- ¾ (2 cm) inch plywood, or road mats over a 4+ inch (10 cm) thick layer of the wood chip mulch
- 4-6 inches (10 to 15 cm) of gravel over a taut, staked, geotextile fabric

Prior to any site works, protective fencing should be installed around the trees as indicated in the attached Tree Information Map and maintained until all construction on site has been completed as per the **City of Ottawa Tree Protection Specifications (April 2019)**. Within the fenced area, the following tree protection guidelines should be applied:

- Do not change the grade
- Do not place store construction material of site “furniture” such as outhouses
- Do not operate machinery
- Do not convert to hard surface or change the landscaping
- Do not excavate unless it is a method that has been pre-approved by the City
- Do not place signs, notices or posters to any tree
- Do not damage the root system, trunk, or branches of any tree
- Direct the exhaust away from the tree

The tree protection fencing must be 1.2 m in height and constructed of a rigid or framed material (e.g. modulus – steel, plywood hoarding, or snow fence on a 2”X4” wood frame) with posts 2.4 m apart such that the fence location cannot be altered.



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The undersigned personally inspected the property and issues associated with this report on February 23 and May 15, 2021. On Behalf of Dendron Forestry Services,



Astrid Nielsen, MFC, RPF (Registered Professional Forester)

ISA Certified Arborist®, ON-1976

ISA Tree Risk Assessment Qualified

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Figure 1: Tree 19, basswood to be removed



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Figure 2: Trees 4-12 along the west side of the property



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Figure 3: Tree 27, white pine to be removed



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Figure 4: Large red maple (tree 25) to be retained



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Figure 5: Tree 15: Butternut in poor health to be removed



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Figure 6: Tree 27, butternut on adjacent property to be removed



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Intended Use of the Report

This Information Report was carried out by Dendron Forestry Services (hereafter Dendron) at the request of the Client. The information, interpretation and analysis contained within this Report is to be used solely for the purposes outlined within this Report. This Report is for the exclusive use of the Client.

Limitations of this Report

This Report is based on the circumstances and observations as they existed at the time of the site inspection of the Client's Property and the trees situated thereon by Dendron and upon information provided by the Client to Dendron. The opinions in this Report are given based on observations made and using generally accepted professional judgment, however, because trees and plants are living organisms and subject to change, damage and disease, the results, observations, recommendations, and analysis as set out in this Report are valid only as at the date any such testing, observations and analysis took place and no guarantee, warranty, representation or opinion is offered or made by Dendron as to the length of the validity of the results, observations, recommendations and analysis contained within this Report. As a result the Client shall not rely upon this Report, save and except for representing the circumstances and observations, analysis and recommendations that were made as at the date of such inspections. It is recommended that the trees discussed in this Report should be re-assessed periodically.

Further Services

Neither Dendron nor any assessor employed or retained by Dendron for the purpose of preparing or assisting in the preparation of this Report shall be required to provide any further consultation or services to the Client, save and except as already carried out in the preparation of this Report and including, without limitation, to act as an expert witness or witness in any court in any jurisdiction unless the Client has first made specific arrangements with respect to such further services, including, without limitation, providing the payment of the Report's regular hourly billing fees.

Dendron accepts no responsibility for the implementation of all or any part of the Report, unless specifically request to examine the implementation of such activities recommended herein. In the event that inspection or supervision of all or part of the implementation is request, that request shall be in writing and the details agreed to in writing by both parties.

Assumptions

The Client is hereby notified and does hereby acknowledge and agree that where any of the facts and information set out and referenced in this Report are based on assumptions, facts or information provided to Dendron by the Client and/or third parties and unless otherwise set out within this Report, Dendron will in no way be responsible for the veracity or accuracy of any such information. Further, the Client acknowledges and agrees that Dendron has, for the purposes of preparing their Report, assumed that the Property, which is the subject of this Report is in full compliance with all applicable federal, provincial, municipal and local statutes, regulations, by-laws, guidelines and other related laws. Dendron explicitly denies any legal liability for any and all issues with respect to non-compliance with any of the above-referenced statutes, regulations, bylaws, guidelines and laws as it may pertain to or affect the Property to which this Report applies.

Professional Responsibility

In carrying out this Report, Dendron and any Assessor appointed for and on behalf of Dendron to perform and carry out the Report has exercised a reasonable standard of care, skill and diligence as would be customarily and normally provided in carrying out this Report. While reasonable efforts have been made to ensure that the trees recommended for retention are healthy, no guarantees are offered, or implied, that these trees, or all parts of them will remain standing. It is professionally impossible to predict with absolute certainty the behaviour of any single tree or group of trees, or all their component parts, in all given circumstances. Inevitably, a standing tree will always pose some risk. Most trees have the potential to fall, lean, or otherwise pose a danger to property and persons in the event of adverse weather conditions, and this risk can only be eliminated if the tree is removed.

Without limiting the foregoing, no liability is assumed by Dendron for:

- a) any legal description provided with respect to the Property;
- b) issues of title and or ownership respect to the Property;
- c) the accuracy of the Property line locations or boundaries with respect to the Property; and
- d) the accuracy of any other information provided to Dendron by the Client or third parties;
- e) any consequential loss, injury or damages suffered by the Client or any third parties, including but not limited to replacement costs, loss of use, earnings and business interruption; and
- f) the unauthorized distribution of the Report.

Further, under no circumstance may any claims be initiated or commenced by the Client against Dendron or any of its directors, officers, employees, contractors, agents or Assessors, in contract or in tort, more than 12 months after the date of this Report.

General

Any plans and/or illustrations in this Report are included only to help the Client visualize the issues in this Report and shall not be relied upon for any other purpose. This report is best viewed in colour. Any copies printed in black and white may make some details difficult to properly understand. Dendron accepts no liability for misunderstandings due to a black and white copy of the report.