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GUIDING SOLUTIONS IN THE NATURAL ENVIRONMENT

# Preliminary Arborist Report Palgrave Estates 17791 Mount Hope Road Town of Caledon

Prepared For:

Joe Triumbari

Prepared By:

**Beacon Environmental Limited** 

Date: Project:

January 2020 218250.1



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## 1. Introduction

Beacon Environmental Limited (Beacon) has been retained by Mr. Joe Triumbari to complete an Arborist Report and accompanying Tree Inventory and Preservation Plan (TIPP) for the proposed estate residential plan of subdivision of 17791 Mount Hope Road in the Town of Caledon and Regional Municipality of Peel (subject property; **Figure 1**). The subject property is approximately 41 ha (102 acres) in area and is located on the east side of Mount Hope Road south of Highway 9, across from Dr. Reynar Road. The subject property is currently under active agricultural use, with the majority of the land planted in row crops.

The majority of the treed resources on the subject property are located within the Significant Woodland feature which will not be impacted by the proposed development and will be provided a 30 m Minimum Vegetation Zone in accordance with the policies of the Oak Ridges Moraine Conservation Plan. This includes a large reforestation area which covers lands adjacent to existing woodlands, as well as areas internal to the development area where lands are currently forested. Trees which will be impacted by the proposed development are those located in hedgerows, those along the edges of the development adjacent to currently forested areas, and those surrounding dilapidated structures. Additionally, trees located in a portion of woodland along the north-eastern property boundary will require removal to allow for road access to McGuire Trail.

This report was prepared in accordance with Town of Caledon requirements, Peel Region Official Plan, as well the Nottawasaga Valley Conservation Authority (NVCA) requirements.

# 2. Methodology

Field data was collected by a Beacon Arborist certified by the International Society of Arboriculture (ISA) on October 23 and 24, 2019. Individual trees were tagged and assessed within and up to 6 m from the area of the proposed development. Trees with a minimum diameter at breast height (DBH) of 15 cm and up were tagged with numbered aluminum forestry tags, inventoried and assessed. The following information was collected for each tree:

- Species;
- DBH (cm);
- Crown Diameter (m); and
- Condition rating based on health and structure (good, fair, poor, or dead).

Trees were measured at breast height (1.4 m) and tree condition was assessed in terms of overall health and structural integrity based on indicators such as live leaves and buds, dead wood, decay, structural defects, and the presence of disease. Each tree was assigned a condition rating of good, fair, poor, or dead, based on the following criteria:

- **Poor** Severe dieback, significant lean, missing leader, major defects, significant decay and/or disease presence;
- Fair Moderate dieback and/or lean, limb defects, multiple stems, moderate foliage damage from stress;



- Good Healthy vigorous growth, minor visible defects or damage; and
- **Dead** No live growth.

Tree locations were surveyed by a licensed Ontario Land Surveyor from Guido Papa Surveying (2019) and were incorporated into a CAD platform.

In addition, within the forested area on the north-eastern end of the subject property where a road is proposed to connect to McGuire Trail (Tree Group A), trees of all sizes were grouped, tallied, and characterized based on DBH size, species and condition. Trees located within the road's footprint and up to 10 m on either side were included in this assessment.

The limitations and detailed methodology of the assessment are detailed in **Appendix A**. A detailed tree inventory is included in **Appendix B**.

## 3. Results

A total of 228 individual trees are documented and tagged on the subject property, outside and along the edges of the reforestation area. An additional 229 trees were tallied and generally accessed in the area associated with the proposed road connecting to McGuire Trail. These trees comprise Tree Group A. Details with respect to the individually tagged trees are included in the tree inventory table in **Appendix B**.

Of the 228 trees individually tagged, dominant species identified included Manitoba Maple (*Acer negundo*) (60.5% of trees inventoried), followed by Scots Pine (*Pinus sylvestris*) (24.1% of trees inventoried), and Sugar Maple (*A. saccharum*) (11.8% of trees inventoried). Refer to **Table 1** for a list of species found on the subject property.

Table 1. Summary of Species Individually Tagged and Inventoried on the Subject Property

Spec	ies	Number of	Percentage	
Botanical Name	Common Name	Trees	of Total	
Acer negundo	Manitoba Maple	138	60.5%	
Acer saccharum	Sugar Maple	27	11.8%	
Juglans nigra	Black Walnut	1	0.4%	
Picea abies	Norway Spruce	4	1.8%	
Pinus sylvestris	Scots Pine	55	24.1%	
Thuja occidentalis	White Cedar	1	0.4%	
Tilia americana	Basswood	1	0.4%	
Ulmus americana	American Elm	1	0.4%	
	TOTAL	228	100%	





# Figure 1 **Site Location** 17791 Mount Hope Road, Caledon **BEACON** Project: 218250.1 ENVIRONMENTAL Last Revised: December 2019 Client: Joe Triumbari Prepared by: BD Checked by: CS 1:8,500 Inset Map:1:60,000

Contains information licensed under the Open Government License-Ontario Orthoimagery Baselayer: 2019 (FBS)



Overall, individually tagged trees are in good or fair-good condition (60%), 21% are in fair condition and 19% are in fair-poor or poor condition. Of the trees in fair, fair-poor and poor condition 90% are Manitoba Maples exhibiting poor form due to their growth pattern and crowding.

Individually tagged trees are generally mid-aged with an average DBH of 31 cm. Tree DBH ranged from 15 cm -115 cm. The larger DBH trees predominantly consist of Sugar Maples located in a hedgerow on the north-eastern side of the property.

		Diameter Ranges (DBH) (cm)					Total
Species	<b>Common Name</b>	0-10	10-20	20-30	30-40	80	Total
Acer saccharum	Sugar Maple	160	5			1	166
Pinus sylvestris	Scots Pine		5	39	2		46
Tsuga canadensis	Eastern Hemlock	17					17
	TOTAL	177	10	39	2		229

Table 2. Tree Tally within Tree Group A

Tree Group A is a mixed forest community located along the north-eastern property limit. The majority of the canopy in this group was comprised of mature Scots Pine. The understory, especially near the dripline, included many small Sugar Maple saplings. Central to this area was a small grove of native Eastern Hemlock, all small in size. Along the property line the Scots Pine thin and the remnants of a hedgerow which includes widely spaced large, mature, native trees runs along the property line. One of these hedgerow trees, a large Sugar Maple (80 cm DBH), is in the path of the proposed road.

Within Tree Group A, native trees (Sugar Maple and Eastern Hemlock) are generally in good condition. Scots Pine within Group A are generally in fair condition. Many snags or fallen Scots Pine were found within Group A as well as thinning Scots Pine showing signs of decline.

## 4. Tree Removal and Preservation Opportunities

The proposed development is a low-density residential subdivision. 29 large estate lots are proposed within the subject property along with associated access roads connecting to Mount Hope Road to the south-west and to McGuire Trail to the north-east. Each lot will have its own septic system and detached dwelling. The proposed development covers 16.5 ha of the site. A large reforestation area is located surrounding the proposed development. This area comprises 10.9 ha of the site. The remaining area is covered by protected woodlands.

Currently the grading design for this property is in a preliminary phase. Septic and dwelling locations shown on **Figure 2** are conceptual. Minimal changes to the existing drainage patterns are proposed currently and therefore it is expected that some trees within the development area are candidates for preservation. All trees within the reforestation area will be preserved. Within Tree Group A, it is estimated that due to the width of the proposed road as well as the swales which flank both sides of it that 80-90% (183-206 trees) of trees tallied will require removal. Updated recommendations, as well as



more detail related to tree preservation opportunities within Tree Group A, will be provided once a final grading and servicing plan has been developed.

Of the 228 trees individually tagged and assessed, a total of 159 are recommended for preservation. This includes 40 trees located within the reforestation zone along the edges of the proposed development. The remaining 119 trees recommended for preservation are located within the proposed development but along the edges of the lots and/or outside of the proposed septic and dwelling footprints. It is expected that once the detailed grading and servicing plans have been provided the number of trees recommended for removal and preservation will require adjustment.

Trees recommended for preservation are dominated by Manitoba Maple (51%), Scots Pine (31%) and Sugar Maple (16%). Generally, trees recommended for preservation are mid-aged with an average DBH of 31 cm and a range of 15 cm - 110 cm DBH. 62% of trees for preservation are in good condition. Trees in fair-poor or poor condition for preservation are those located within the reforestation zone or on the limits of the development. **Table 3** provides a summary of trees for preservation.

A total of 69 individually tagged and assessed trees are recommended for removal. 62 of these are in direct conflict with the proposed grading, septic, or dwelling locations. The remaining 7 trees are recommended for removal due to their poor condition and potential locations in residential backyards. Invasive species including Manitoba maple (86%) and Scots Pine (7%) dominate trees for removal. Generally, trees for removal were mature with an average DBH of 33 cm and a DBH range of 15 cm - 115 cm. 54% of trees for removal were in good or fair-good condition, and 35% were in poor or fair-poor condition. **Table 3** provides a summary of trees for removal.

Preserve-In **Species** Remove-Remove-Preserve Reforestation Development Condition Zone **Common Name Botanical Name** 53 6 66 15 Acer negundo Manitoba Maple 2 14 11 Acer saccharum Sugar Maple Juglans nigra Black Walnut 2 Picea abies Norway Spruce 5 37 13 Pinus sylvestris Scots Pine Thuja occidentalis White Cedar 1 Tilia americana Basswood American Elm 1 Ulmus americana TOTAL 62 7 119 40

**Table 3. Summary of Trees for Preservation and Removal** 

## 5. Tree Protection and Preservation Guidelines

Any trees that do not require removal to accommodate construction shall be protected through the establishment of a Tree Protection Zone (TPZ). Prior to construction, heavy-duty tree protection fencing



# TREE INVENTORY

<u>No.</u>	Scientific Name	Common Name Sugar Maple	DBH (cm)	Crown Diameter (m)	Condition	Comments	TPZ radius (m)	Preservation Recommendatio
2 3	Acer saccharum Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	62 20, 15, 25, 29 53	10 7 7	Good Good Good		2.4 3.6	Preserve-In reforestation zone Preserve-In reforestation zone Preserve-In reforestation zone
5	Acer saccharum Acer negundo	Sugar Maple Manitoba Maple	49 20	8 3	Good Fair	Epicormic shoots, poor form One sided canopy, large wound on	3.0 2.4	Preserve-In reforestation zone Preserve-In reforestation zone
7	Acer saccharum  Acer saccharum	Sugar Maple Sugar Maple	110 47	6	Fair-Good Good	one side of trunk, wire fence embedded in trunk One sided canopy	3.0	Preserve-In reforestation zone  Preserve-In reforestation zone
8	Acer saccharum	Sugar Maple	16, 17	5	Fair-Poor	Large cavity in one stem, both leaders damaged	2.4	Preserve-In reforestation zone
9	Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	23 18, 20	2 6	Fair-Poor Fair	Main leader almost dead, crown mainly epicormic growth Poor form, one leader gone	2.4	Preserve-In reforestation zone  Preserve-In reforestation zone
11 12 15	Acer saccharum Acer saccharum Acer saccharum	Sugar Maple Sugar Maple Sugar Maple	101 19 19, 15	10 6 5	Good Good Fair-Good	Canopy one sided Poor form, canopy one sided	6.0 2.4 2.4	Preserve-In reforestation zone Preserve Preserve
16 17	Acer saccharum  Acer saccharum	Sugar Maple Sugar Maple	96, 18 36	8 4	Good Fair-Poor	Large cavity in leader, large	6.0	Preserve  Preserve
18 19	Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	31 24 25, 16	5 5	Good Good	branches dead Canopy one sided Canopy one sided	2.4 2.4	Preserve Preserve
20 21 22	Acer saccharum Acer saccharum Acer saccharum	Sugar Maple Sugar Maple Sugar Maple	25, 16 28, 22, 30, 26, 28 56	5 7 6	Good Good Good	Canopy one sided Included bark	2.4 2.4 3.6	Preserve Preserve Preserve
23	Acer saccharum	Sugar Maple	42, 50	7	Fair-Poor	Trunk severly damaged, dieback in crown Leader dead at the very top, wire	3.0	Preserve Povelenment
24 25	Acer saccharum  Acer saccharum	Sugar Maple Sugar Maple	115 35	10 5	Fair Fair-Good	fence embedded in trunk Large branch broken, one sided canopy	2.4	Remove-Development  Preserve
26 27	Acer saccharum Acer saccharum	Sugar Maple Sugar Maple	27 45, 48	4 5	Fair Fair-Good	One sided canopy, wound in trunk One leader severly damaged	2.4	Preserve Remove-Development
28 29	Pinus sylvestris Acer negundo	Scott's Pine Manitoba Maple	28 17	5	Good Fair	Many epicormic shoots Tree split in half, leaders damaged,	2.4 2.4	Preserve Preserve-In reforestation zone
30	Acer negundo  Acer negundo	Manitoba Maple  Manitoba Maple	38, 45 38, 32, 30	11	Poor Fair-Poor	many epicormic shoots, large cavities Poor form, many epicormic shoots	2.4	Preserve-In reforestation zone  Preserve-In reforestation zone
32	Acer negundo Acer negundo	Manitoba Maple  Manitoba Maple	51	10	Good Fair	Epicormic shoots, dead branches	3.6 3.6	Preserve-In reforestation zone Preserve-In reforestation zone
34	Acer negundo	Manitoba Maple	39, 18	7	Fair	and cavities in trunk Dead branches, epicormic shoots, included bark Horizontal leader, all crown is	2.4	Preserve-In reforestation zone
35	Acer negundo	Manitoba Maple	41, 40	6	Fair-Poor	epicormic shoots, branches growing within collapsed building	2.4	Preserve
36 37	Acer negundo Acer negundo	Manitoba Maple  Manitoba Maple	20 17, 15	2	Fair-Good Poor	Leaning, dead branches Tree fallen, mostly dead, live	2.4	Remove-Development  Remove - Condition
38	Acer negundo	Manitoba Maple	25	5	Fair-Good	growth all epicormic shoots Thin canopy, many dead branches Growing in fence, dead branches	2.4	Preserve
39 40	Acer negundo Acer negundo	Manitoba Maple  Manitoba Maple	43 25, 16	5	Fair-Good Fair-Poor	and epicormic shoots Many dead branches and	2.4	Preserve Preserve
41	Acer negundo	Manitoba Maple	18	3	Poor	epicormic shoots Many dead branches , wound in trunk, epicormic shoots	2.4	Remove - Condition
42	Acer negundo	Manitoba Maple	15	3	Poor	Heavy lean, dead branches, epicormic shoots Heavy lean, dead branches,	2.4	Remove - Condition
43	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	39 28	5	Fair Fair	epicormic shoots Dead branches, epicormic shoots	2.4	Preserve Preserve
45	Acer negundo	Manitoba Maple	25	4	Fair-Poor	Many dead branches and epicormic shoots One large branche dead, wooden	2.4	Preserve
46 47	Thuja occidentalis  Acer negundo	White Cedar  Manitoba Maple	51 52	6 12	Fair-Good Fair	structure in tree Dead branches and epicormic	3.6	Preserve Preserve
48	Acer negundo	Manitoba Maple	17	4	Fair	shoots Dead branches and epicormic	2.4	Preserve
49	Acer negundo	Manitoba Maple	21	3	Fair	shoots Dead branches and epicormic shoots Many dead and broken branches,	2.4	Preserve
50 51	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	31 43	3 7	Fair-Poor Fair	epicormic shoots Dead branches, epicormic shoots	2.4	Preserve Preserve
52	Acer negundo	Manitoba Maple	19	1.5	Fair-Poor	Dead branches, epicormic shoots, large crack in trunk Main branches broken, all growth	2.4	Preserve
53 54	Acer negundo Ulmus americana	Manitoba Maple American Elm	33, 18 17	3	Poor	epicormic shoots Almost dead	2.4	Remove - Condition  Remove - Condition
55 56	Acer negundo Acer negundo	Manitoba Maple  Manitoba Maple	24 35	4 8	Fair Good	Many dead branches and epicormic shoots Some epicormic shoots	2.4	Preserve Preserve
57	Acer negundo	Manitoba Maple	31, 32,20	7	Fair	Many dead branches, large branches broken, many epicormic	2.4	Preserve
58 59	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	15 16	4 4	Fair Fair	shoots Dead branches, epicormic shoots Dead branches, epicormic shoots	2.4 2.4	Preserve Preserve
60	Acer negundo	Manitoba Maple	52, 38	11	Fair	Large cavities, epicormic shoots and dead branches Many dead branches, epicormic	3.6	Preserve
61 62	Acer negundo Pinus sylvestris	Manitoba Maple Scott's Pine	49 16	6 3	Fair Good	shoots	3 2.4	Preserve Preserve
63	Acer negundo Acer negundo	Manitoba Maple  Manitoba Maple	36 25	6	Fair-Good Poor	Dead branches and epicormic shoots Crown all epicormic shoots,	2.4	Preserve  Remove - Condition
65	Acer negundo	Manitoba Maple	28, 30	7	Fair	branches dead Dead branches and epicormic shoots	2.4	Preserve
66	Acer negundo	Manitoba Maple	22	2	Fair-Poor	Leader broken, all growth epicormic shoots, leaning	2.4	Preserve
67	Acer negundo	Manitoba Maple	26, 18	5	Poor	Main branches broken, all growth epicormic shoots  Main branches broken, many	2.4	Remove - Condition
68	Acer negundo	Manitoba Maple	32	4	Fair-Poor	epicormic shoots and dead branches Debris at base, epicormic shoots,	2.4	Remove-Development
69 70	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	22 28, 18	5 7	Fair-Poor Fair-Good	main branch broken	2.4	Remove-Development Remove-Development
71	Acer negundo	Manitoba Maple	29	4	Fair-Poor	One main branch broken, many epicormic shoots	2.4	Remove-Development
72 73	Acer negundo  Acer negundo	Manitoba Maple  Manitoba Maple	38, 19 15, 30, 26	7	Fair-Good Fair-Poor	Epicromic shoots and dead branches One leader dead, other branches	2.4	Remove-Development  Remove-Development
74	Acer negundo	Manitoba Maple	25, 20	2	Fair	broken, many epicormic shoots Large leaders cut, crown all epicormic shoots	2.4	Preserve
75	Acer negundo	Manitoba Maple	26	4	Fair	Large leaders cut, crown all epicormic shoots	2.4	Preserve
76	Acer negundo	Manitoba Maple	24	4	Fair	Large branches dead, epicormic shoots Dead branches and epicormic	2.4	Preserve Povelenment
77 78 79	Acer negundo Acer negundo Acer negundo	Manitoba Maple  Manitoba Maple  Manitoba Maple	17, 15, 16 25, 30 29, 22	5 6 5	Fair Fair-Good Fair-Good	shoots Epicormic shoots Epicormic shoots	2.4 2.4 2.4	Remove-Development Remove-Development Remove-Development
80	Acer negundo	Manitoba Maple	25, 20	3	Fair-Poor	One large branch dead, many dead branches and epicormic	2.4	Remove-Development
81	Acer negundo	Manitoba Maple	28	3	Fair	shoots Many epicormic shoots and dead branches	2.4	Preserve
82 83	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	26 31	4 8	Poor Good	Roots upheaved, main leader gone, all growth epicormic shoots Epicormic shoots	2.4	Remove-Development Remove-Development
84 85	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	38 24	7 4	Good Fair-Good	Dead branches, epicormic shoots Dead branches, epicormic shoots	2.4 2.4	Remove-Development Remove-Development
86 87	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	35 34	6	Fair-Good Fair-Good	Dead branches, epicormic shoots Trunk damaged, epicormic shoots and dead branches	2.4	Remove-Development Remove-Development
88 89	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	37 58, 20, 25	5 7	Good Fair-Poor	Some epicormic shoots  Many large broken and dead	2.4 3.6	Remove-Development Remove-Development
90	Acer negundo	Manitoba Maple	41, 25	8	Fair	branches, many epicormic shoots One leader broken and dead, many epicormic shoots	3	Remove-Development
91	Acer negundo	Manitoba Maple	54	5	Poor	Main trunk broken, all branches gone, all growth epicormic shoots, large cavities	3.6	Remove-Development
92	Acer negundo	Manitoba Maple	55	4	Poor	Main trunk broken, all branches gone, all growth epicormic shoots,	3.6	Remove-Development
93	Acer negundo	Manitoba Maple	48	8	Fair-Poor	large cavities Some large branches broken,	3.0	Preserve
94 95	Picea abies Picea abies	Norway Spruce Norway Spruce	75 46	11 6	Good Fair-Good	many epicormic shoots Shaded by 94	4.8 3	Remove-Development Remove-Development
96	Acer negundo	Manitoba Maple	60	7	Fair	One large branch broken, many broken branches and epicormic	3.6	Remove-Development
97	Acer negundo	Manitoba Maple	50	5	Poor	Shoots Trunk rotted and broken, large cavities, all growth epicormic	3	Remove-Development
98	Acer negundo	Manitoba Maple	60	9	Fair-Poor	shoots Large branch dead, many dead branches and epicormic shoots	3.6	Remove-Development
99	Acer negundo	Manitoba Maple	42	7	Fair-Poor	Tree growing over large dead stump, very poor form, dead	3	Remove-Development
100	Acer negundo	Manitoba Maple	30, 26, 22, 22, 15, 15, 26, 16	8	Fair	branches, epicormic shoots Some branches horizontal along ground, many epicormic shoots	2.4	Remove-Development
101 102	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	24 31	3 6	Fair Good	Trunk horizontal along ground Epicormic shoots	2.4 2.4	Preserve Preserve
103	Acer negundo	Manitoba Maple	48	5	Fair	Large branch dead, many epicormic shoots, debris pile at base	3	Preserve
104	Acer negundo	Manitoba Maple	65	10	Fair-Poor	Large branch broken,included bark, dead branches, large	4.2	Preserve
105	Acer negundo	Manitoba Maple	30	5	Good	cavities, epicormic shoots, Epicormic shoots Epicormic shoots and dead	2.4	Remove-Development
106	Acer negundo Acer negundo	Manitoba Maple  Manitoba Maple	22 15, 21	6 5	Fair-Good Good	branches Epicormic shoots, leaning Large branches dead, epicormic	2.4	Remove-Development  Remove-Development
	Acer negundo Acer negundo	Manitoba Maple  Manitoba Maple  Manitoba Maple	35 21	3	Fair-Good	shoots Epicormic shoots	2.4	Remove-Development Remove-Development
110 111	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	30 18, 17	4	Fair-Good Fair-Good	Epicormic shoots Epicormic shoots Large broken branches, poor form,	2.4 2.4	Remove-Development Remove-Development
112 113	Acer negundo Acer negundo	Manitoba Maple  Manitoba Maple	20	2	Poor Good	epicormic shoots Some epicormic shoots	2.4	Remove-Development  Remove-Development
114	Acer negundo	Manitoba Maple	16, 12	3	Fair-Good	Many epicormic shoots and dead branches Dead branches and epicormic	2.4	Remove-Development
115	Acer negundo	Manitoba Maple	21	5	Fair-Poor	shoots, growing within old barn partially	2.4	Remove-Development
116 117	Acer negundo Acer negundo	Manitoba Maple Manitoba Maple	27 25, 26	6 8	Fair-Good Fair-Poor	Many epicormic shoots Very poor form, many epicormic shoots and dead branches	2.4 2.4	Remove-Development Remove-Development
118	Acer negundo	Manitoba Maple Manitoba Maple	21, 27	7	Fair-Good	shoots and dead branches included bark and epicormic shoots Poor form, empicormic shoots	2.4	Remove-Development Remove-Development
119 120	Acer negundo Acer negundo	Manitoba Maple  Manitoba Maple	22 16	6 3	Fair-Good Fair	Many epicormic shoots, dead branches, poor form	2.4	Remove-Development Remove-Development
121	Acer negundo	Manitoba Maple	25, 12, 22	6	Fair-Poor	Main stem horizontal along ground, all growth large epicormic shoots	2.4	Remove-Development
122 123 124	Acer negundo Acer negundo Acer negundo	Manitoba Maple Manitoba Maple Manitoba Maple	33 26 15	6 5 4	Fair Fair-Good Fair-Good	Dead branches, epicormic shoots Dead branches, epicormic shoots Dead branches, epicormic shoots	2.4 2.4 2.4	Remove-Development Remove-Development Remove-Development
125	Acer negundo	Manitoba Maple	15, 10, 8	5	Fair	Very poor form, one leader dead, branches fused, epicormic shoots	2.4	Remove-Development
126 127	Acer negundo Pinus sylvestris	Manitoba Maple Scott's Pine	25, 18 36	5 5	Fair-Good Good	Dead branches and epicormic shoots, included bark	2.4 2.4	Remove-Development Preserve
128	Acer saccharum	Sugar Maple	16, 12	3	Fair-Good	Leader damaged, one sided canopy	2.4	Preserve
129	Acer saccharum Acer negundo	Sugar Maple Manitoba Maple	18 20, 21	5	Fair-Good Fair	One sided canopy Poor form, epicormic shoots, dead branches	2.4	Preserve Preserve
130		h				Poor form, epicormic shoots, dead		
130 131 132	Acer negundo Juglans nigra	Manitoba Maple Black Walnut	19, 11 16 22, 25	5	Fair-Good Good	branches One sided canopy	2.4	Preserve Preserve

# TREE PROTECTION DETAIL DRAWING

TPZ radius (m) Preservation Recommendation

Preserve

Remove-Development

Remove-Development

Remove-Development
Preserve-In reforestation zone
Preserve-In reforestation zone

Preserve-In reforestation zone

Preserve-In reforestation zone Preserve

Remove-Development

Preserve

Preserve

Preserve

Preserve

Preserve

Preserve

Preserve

Preserve

Preserve

Preserve-In reforestation zone Preserve-In reforestation zone Preserve-In reforestation zone

Preserve-In reforestation zone
Preserve-In reforestation zone
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Preserve-In reforestation zone

Preserve-In reforestation zone
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Preserve

Preserve
Preserve-In reforestation zone
Preserve-In reforestation zone
Preserve
Preserve
Preserve

Preserve

Preserve

Preserve

Preserve

Preserve

Preserve

2.4

3.6

3.6

One sided canopy

dead branches

Fair-Good

Fair-Poor

Fair-Good

Good

Fair-Good

Fair

Good

Fair-Good

Fair-Poor

Fair-Good

Fair-Good

Fair-Good

Fair-Poor

Fair-Poor

Good

Fair

Fair-Good

Fair-Good Leader damaged

Fair-Good Large branch broken
Good
Fair-Good Dead branches

143 Acer negundo

153 Acer negundo

154 Acer negundo

155 Acer negundo

158 Acer negundo

159 Acer negundo 160 Acer negundo

161 Acer negundo

162 Acer negundo

163 Acer negundo

164 Acer negundo

165 Acer negundo

166 Acer negundo

167 Acer negundo

168 Acer negundo

169 Acer negundo

170 Acer negundo

200 Pinus sylvestris

206 Acer negundo

209 Acer negundo

210 Acer negundo

211 Acer negundo

213 Acer negundo

217 Acer negundo

Manitoba Maple

Scott's Pine

Manitoba Maple

60, 65

36, 42

42, 45

60, 55, 38, 43

51, 42, 45, 46

35, 25, 16

38, 30

60, 50

48, 22, 18, 28, 36, 30

31, 18, 19, 14

25, 36, 33, 52

50, 38

52, 48, 65

18

55, 40, 36, 31

Leader dead, epicormic shoots and

Wood platform in between two

dead branches and epicormic

shoots Dead branches and epicormic

Some dead branches and

<u>Some dead branches</u> Some large branches dead,

epicormic shoots Many dead branches and

epicormic shoots, poor form Some epicormic shoots Many epicormic shoots, some

leaders split, dead branches,

branches Leader cracked, dead branches,

epicormic shoots, horizontal stem

All lower branches dead, very thin

Dead branches, epicormic shoots Horizontal to ground, all epicormic

embankment Dead branches, epicormic shoots

Growing on embankment, leaning

nto neighbour's yard Dead branches, leaning over field,

Epicormic shoots, dead branches,

growing on embankment Dead branches, leaning over field,

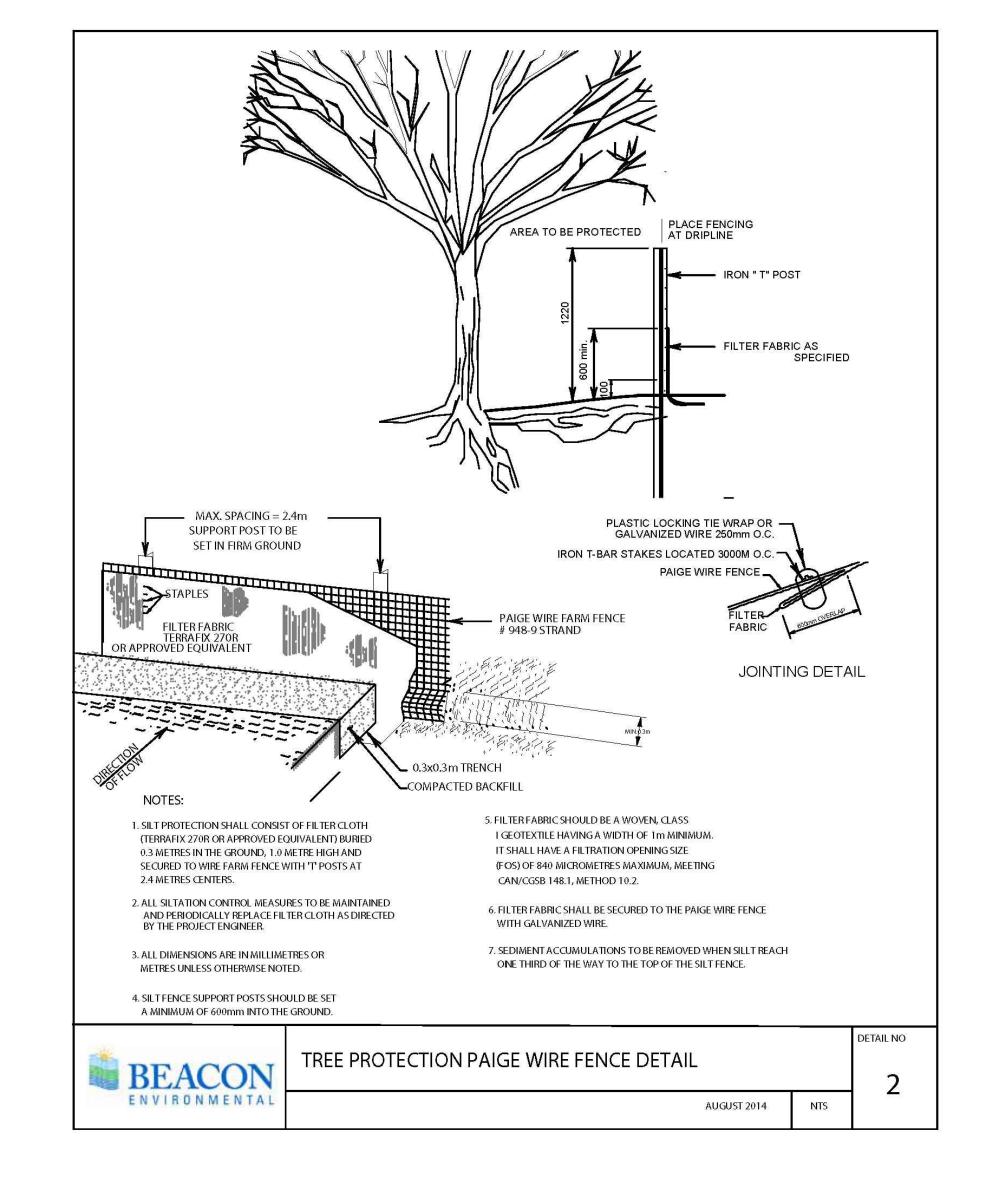
Dead branches, epicormic shoots,

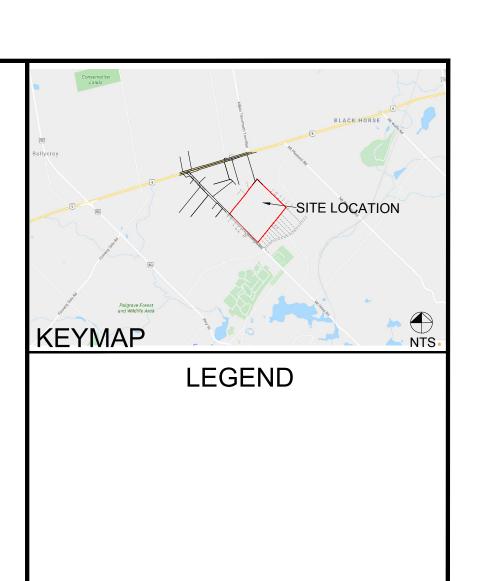
on PL leaning over neighbour's

ead branches, epicormic shoots

epicormic shoots

epicormic shoots, horizontal leader, poor form One sided canopy, epicormic





REVISIONS	DATE:	BY:
ISSUED	2019/12/18	NC

NORTH AF





JOE TRIUMBARI

PROJECT PALGRAVE ESTATES

17791 MOUNT HOPE ROAD

CALEDON

TREE PROTECTION

DETAILS

DESIGN BT.		218250.1
DRAWN BY:	NC	FIGURE N°:
CHECKED BY:	NC	TP-2
DATE:	18 December 2019	



with erosion/silt control measures is required to be installed around the tree located a minimum distance as shown in the "TPZ" column of the tree inventory table in **Appendix B**, as measured from the base of the tree, or to the edge of a paved surface. The TPZ should be demarcated with tree protection fence consistent with silt fencing, comprised of wire fence secured to t-bar stakes spaced a maximum of 1.8 m apart with siltation fabric toed into ground surface. No materials shall be stored inside or up against this fencing, and a sign should be hung on the most visible side designating the TPZ. The location of the tree protection barrier in relation to the proposed development is shown on **Figure 2**.

**Table 4** outlines TPZs based on tree diameter categories. A minimum TPZ has been determined which recommends 6 cm of TPZ radius be provided for every 1 cm of trunk diameter and is consistent with several municipalities within the Greater Toronto Area (e.g. City of Toronto, City of Markham, Town of Richmond Hill).

Trunk Diameter at Breast Height (cm)	Minimum TPZ (m)
≤10	1.2
11-20	1.2
21-30	1.8
31-40	2.4
41-50	3.0
51-60	3.6
61-70	4.2
71-80	4.8
81-90	5.4
91-100	6.0

**Table 4. Minimum TPZ Distances** 

In addition to the establishment of Tree Protection Zones, the following specifications are recommended:

- Before the beginning of work, the contractor shall meet with Beacon Environmental on site to review work procedures, access routes, storage areas and the TPZ or other tree protection measures;
- 2. Tree Protection Fencing shall be installed and in good condition prior to the start of construction and is to be maintained in good condition throughout the duration of construction activities:
- 3. Areas within the Tree Protection Fencing of the trees designated for preservation are not to be used for any type of storage;
- 4. Trees shall not have any rigging cables or hardware of any sort attached or wrapped around them, nor shall any contaminants be dumped within the protective areas or flushed where they may come into contact with the feeder roots of the trees;
- 5. In the event that it is necessary to remove additional limbs or portions of trees, after construction has commenced, to accommodate construction, the consulting Arborist or project administrator is to be informed and the removal is to be executed carefully and in full accordance with arboricultural techniques, by a qualified Arborist;
- 6. During excavation operations in which roots are affected, the Contractor is to prune all exposed roots cleanly. Pruned root ends shall point obliquely downwards. The exposed



roots should not be allowed to dry out. The Contractor shall discuss watering of the roots with the Owner and Contract Administrator prior to pruning to ensure that so that optimum soil moisture is maintained during construction and backfilling operations. Backfilling must be completed as soon as practical with clean, uncontaminated native topsoil or mulch. Directional drilling is recommended for installing infrastructure servicing within Tree Protection Zones; and

7. Where the access route abuts the Tree Protection Fencing, curb shall be hand-formed to minimize root loss.

### 5.1 Timing of Tree Removals

The federal *Migratory Birds Convention Act* (1994) and provincial *Fish and Wildlife Conservation Act* (1997) protect the nests, eggs and young of most bird species from harm or destruction. As the peak breeding bird season in southern Ontario is generally from mid-May to early-July, and the more general breeding bird season is between early April and late August, vegetation clearing should occur outside of these periods (i.e., April 1 to August 31) whenever possible. For any proposed clearing of vegetation within these dates, or where birds may be suspected of nesting outside of these dates, an Ecologist or Avian Biologist should undertake detailed nest searches immediately prior to site alteration to ensure that no active nests are present. If active nests are confirmed, removal of the tree / vegetation will need to be delayed until the nest is no longer actively used.

### 5.2 Endangered Bats

Some treed vegetation communities present on the subject property may provide habitat for several species of bats that are considered endangered in Ontario and are subject to regulation under the provincial *Endangered Species Act* (2007).

The potential for bat habitat has been assessed and reported in the Nature Heritage Evaluation, 17791 Mount Hope Road, Town of Caledon (Beacon 2019).

## 6. Tree Replacement

It is recommended that any trees identified for removal should be replaced at a 2:1 ratio (138 replacement trees total). Tree replacement quantities are to be confirmed in consultation with the NVCA and Town of Caledon. The proposed reforestation area provides a significant amount of land in which replacement trees can be incorporated. This reforestation area provides opportunities to buffer and protect the adjacent woodland communities. As a result, it is recommended that a plantation-style reforestation approach be avoided. Instead it is recommended that a combination of native trees, shrubs, and native seed mix should be utilized to mimic the natural regeneration process. It is also recommended that a variety of tree sizes, from whips to large potted stock, be utilized. This planting approach will provide wildlife habitat and allow for natural succession to occur leading to a woodland community similar to those surrounding the subject property. A reforestation plan will be provided by Beacon to address the plantings in the reforestation area and provide compensation for trees removed



for the proposed development once the areas have been agreed to in principle with the agencies. **Table 5** provides a recommended list of species for planting within the reforestation area.

**Table 5. Recommended Replacement Species** 

Common Name	Latin Name
Freeman's Maple	Acer x freemanii
Sugar Maple	Acer saccharum
White Birch	Betula papyrifera
Bitternut Hickory	Carya cordiformis
Shagbark Hickory	Carya ovata
Black Walnut	Juglans nigra
Juniper	Juniperus virginiana
Larch	Larix laricina
Ironwood	Ostrya virginiana
White Spruce	Picea glauca
White Pine	Pinus strobus
Large-toothed Aspen	Populus grandidentata
Cottonwood	Populus deltoides
Trembling Aspen	Populus tremuloides
Black Cherry	Prunus serotina
White Oak	Quercus alba
Bur Oak	Quercus macrocarpa
Red Oak	Quercus rubra
White Cedar	Thuja canadensis
Basswood	Tilia americana
Hemlock	Tsuga canadensis

Should you have any comments regarding the above, or require clarification or modification, please do not hesitate to contact the undersigned at (519) 826-0419 ext. 28.

Prepared by:

**Beacon Environmental** 

Reviewed by:

**Beacon Environmental** 

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ISA Certified Arborist (ON-1821A)



## 7. References

Beacon Environmental. 2019.

Natural Heritage Evaluation. 17791 Mount Hope Road. Town of Caledon. December 2019.

Lilly, Sharon J. 2001.

Arborists' Certification Study Guide. International Society of Arboriculture, Champaign, Illinois.

Guido Papa Surveying. A Division of J.D. Barnes Limited. 2019

Sketch Showing Tagged Trees for Site Development Purposes of Part of Lot 28 Concession 8 Town of Caledon Regional Municipality of Peel. December 2019.

Masongsong Associates. 2019

Grading Plan. Palgrave Estates Subdivision. October 2019.



# Appendix A

Tree Inventory and Assessment Methodology & Limitations of Tree Assessment



# Appendix A

### Tree Inventory and Assessment Methodology\*

\*Note that not all the tree descriptors contained herein may be used in a tree assessment and report.

**DBH (cm):** Diameter at breast height, 1.4 m above ground, measured in centimeters. Two or more numbers denotes the DBH of each stem/trunk for trees with multiple stems/trunks. For multi-stemmed trees, for the purpose of determining the minimum tree protection zone DBH is calculated as the square root of the sum of the square DBH of each stem.

**Crown Reserve/Diameter (metres):** Crown diameter (tree's canopy) measured at intervals of 1 metre.

**Condition:** General Condition is recorded for standard tree inventories and assessments. For detailed tree inventories and assessments, when required the assessment of tree condition evaluates factors of Biological Health and Structural Condition separately.

The descriptors of health and structure attributed to a tree evaluate the individual specimen to what could be considered typical for that species growing in its location under current site and climatic conditions. For example, some species can display inherently poor branching architecture, such as multiple acute branch attachments with included bark. Whilst these structural defects may technically be considered arboriculturally poor, they are typical for the species and may not constitute an increased risk of failure. These trees may be assigned an intermediate structural rating of fair – poor (rather than poor) at the discretion of the assessor.

#### **General Condition:**

Outlined below are the detailed guidelines utilized for the classification of general condition rating:

- **Excellent**: (Healthy)
  - No major branch mortality: crown is typical with less than 10% branch or twig mortality; no signs of decay.
- Good: (Light Decline)
  - Branch mortality, twig dieback in 11-25% of the crown: broken branches or crown missing based on presence of old snags is less than 26%; minor evidence of decay.
- Fair: (Moderate Decline)
  - Branch mortality, twig dieback in 26-50% of the crown: broken branches or crown area missing based on presence of old snags is 50% or less; decay evident.
- Poor: (Severe Decline)
  - Branch mortality, 50% or more of the crown dead: broken branches or crown area missing based on presence of old snags in more than 50%; decay resulting in high hazard assessment.
- **Dead**: (due to Natural or Human Causes)
  - Tree is dead, either standing or down: phloem under bark has brown streaks: few epicormic shoots may be present.



**Biological Health:** Related to presence and extent of various attributes to describe the overall health and vigour of the tree.

Biological Health Category*	Vigour, Extension, & Growth	Decline symptoms, Deadwood, & Dieback	Foliage density, colour, size, & intactness	Pests and/or Disease
Excellent	Above typical. Excellent. Full canopy density.	None or negligible.	Above typical. No deficiencies or defects detected.	None or negligible.
Good	Above typical. Full canopy density.	Negligible.	Typical. Minor deficiencies or defects could be present.	Negligible.
Fair	Typical vigour. >80% canopy density.	More than typical. Small sub-branch dieback.	Exhibiting deficiencies. Could be thinning, or foliage smaller.	Minor, within damage thresholds.
Poor	Below typical or Excessive, la		Exhibiting severe deficiencies. Thinning foliage, generally smaller or deformed.	Exceeds damage thresholds and contributing to decline.
Dead	Tree is dead	n/a	n/a	n/a

<sup>\*</sup>Note that intermediate ratings can be applied, at the discretion of the arborist, in cases where biological health attributes fall within closely related categories, e.g. Good-Fair.

**Structural Condition:** Related to defects in a tree's structure, (i.e., lean, codominant trunks). Structural rating will also consider general branching architecture, stem taper, live crown ratio, crown symmetry, and crown position such as a tree being suppressed by more dominant trees. Tree structure zones listed below are adapted from Coder, Construction damage assessments: trees and sites, 1996 University of Georgia, USA.

Structure Category*	Trunk		Primary branch support	Outer crown & Roots	
Good	No obvious damage, disease or decay; obvious basal flare / stable in ground.	No obvious damage, disease, or decay; well tapered.	Well formed, attached, spaced and tapered. No history of failure.	No obvious damage, disease, decay, or structural defect. No history of failure.	
Fair	Moderate-Minor Minor damage or		Generally well-attached, spaced and tapered branches. Minor structural deficiencies may be present or developing. No history of branch failure.	Minor damage, disease, or decay; minor branch end- weight or over- extension. No history of branch failure.	
Poor	Moderate - major damage, disease or decay; fungal fruiting bodies present. Excessive lean placing pressure on root plate.	Moderate - major damage, disease, or decay; exceeds recognized thresholds; fungal fruiting bodies present. Acute lean. Stump re-sprout.	Weak, decayed, cavities or has acute branch attachments with included bark; excessive compression flaring; failure likely. Evidence of major branch failure.	Moderate - major damage, disease or decay; fungal fruiting bodies present; major branch end-weight or over-extension. Branch failure evident.	



\*Note that intermediate ratings can be applied, at the discretion of the arborist, in cases where biological health attributes fall within closely related categories, e.g. Good-Fair.

**Height (metres):** Height of tree from ground to top of crown. Height is estimated from visual ground observations.

**Position on Site: AP** - above-ground planter; **ED** - Edge, e.g., forest, woodland; **IN** - Interior, e.g., forest, woodland; **HR** - hedgerow, row/linear group of trees; **OG** - open-grown; **PI** - planting island; **GP** - group/cluster

On-site Tree: Tree trunk located completely within the property boundary of the subject property. Off-site Tree: Tree trunk located completely outside of the property boundary of the subject property. Public Tree: Tree is located on the property of the municipality/region, e.g., within Right-of-Way. Shared Tree: Tree shared between the subject property and adjacent private or public property (i.e. tree trunk located partially within the boundary of the subject property). Documented as 'S' in off-site tree or municipal tree data columns.

**Recommended Action:** A recommendation of the following three categories is assigned to preserve or remove a tree:

- i. The tree's current biological health and structural condition
- ii. The anticipated impacts from proposed development
- iii. The summary of the previous two categories.

Note: Only trees having a recommendation of preserve for both health and structure, and impacts from the proposed development are assigned a final recommendation of preserve.

- **P** (Preserve) Tree has a moderate to high biological health AND moderate to high structural condition, AND is likely to survive impact from the proposed development (if present). The tree is likely to survive for at least 3 to 5 years.
- **R** (Remove) Tree has low biological health, AND/OR low structural condition, AND/OR will not survive the proposed development impacts (if present). The tree is not likely to survive more than 1-3 years.
- **C** (Conditional) In some situations a tree's preservation or removal is related to potential relocation/modification of the limit of construction, and/or known arboricultural treatments that will likely improve the biological health and/or structural condition of the tree. This may include review of a tree's condition, e.g., roots, at time of construction/excavation.

**Site Development Impact:** Impact to tree is anticipated from proposed development (e.g., road, building) at or near the tree, and/or grade changes (cut/fill).

**Transplant Potential:** A transplantation recommendation of **Y**es or **N**o based on a tree's size, species, and condition, and present and future site conditions (e.g. near adjacent trees/objects, on slopes, soil type).



#### **Codes of Damage Descriptions**

BA - branch attachment poor

BB - burlap, basket, wire present on/in tree/root ball

BC - bark crack

BI - bark included

BN - bark necrosis

BS - basal trunk sprouts

CA - crown asymmetrical

CB - crown broken

CD - crown dieback

CK - canker (abnormal growth from disease or damage)

CL - crown live, CL20 - 20% live crown

CS - crown sprouts

CT - crown thin (having reduced foliage)

CV - crown vines

DW - deadwood

ES - Epicormic sprouts

FB - fungal bodies present

LC - leaves chlorotic (yellow)

LD - leaves defoliated

LP - leader poor/problem

MB - multiple branches from same point of attachment

ML - multiple leaders

PH - planted high

PI - improper pruning

PL - planted low

RC - root crown damage/abnormality

RE - roots exposed

RG - roots girdling

SC - stems co-dominant

SG - stem girdled

ST - soil on trunk

TB - trunk bent

TC - trunk cavity

TK - trunk crooked

TD - trunk decay

TE - trunk base enlarged abnormally

TF - trunk basal flair lacking / abnormal

TG - trunk/stem girdling

TL - trunk lean (L< 5°), (M 5-20°), (H>20°)

TM - trunks multiple from at or below ground level

TS - trunk split

TT - trunk twisted

TW - trunk wound

WW - wet wood

#### **Quantified Tree Conditions (defects, diseases)**

L (low, minor), M (moderate), H (high, severe)

e.g. CT(H) = severe crooked trunk

TD(L) = minor trunk decay

TF(H) = severely poor basal trunk flare

#### Cardinal Coordinates (N, S, E, W)

e.g., LN(L-S) = minor lean to the south

#### **Codes of Recommendations**

A - Add mulch

B - Remove attachments (burlap, wire, stake, guard)

C - Cable

F - Fertilize

L - lower soil level

M - Monitor

N - None Needed

P - Prune

R - Remove

S - Soil bulk density (compaction) lower

V - soil volume (increase)

W - Water

**Priority**: An action priority schedule (i.e. general timing) to provide arboricultural treatment(s).

E - Extremely Urgent (within a week)

U - Urgent (within 3 months)

H - High (within a year)

M - Moderate (within 3 years)

L - Low (little or no action required for at least 5 years)



#### **Limitations of Tree Assessment**

It is the policy of Beacon Environmental Ltd. to attach the following clause regarding limitations of the tree assessment. The intent is to ensure that the client is aware of what is technically and professionally realistic in assessing and/or retaining trees.

The assessment of the trees presented in this report has been made using accepted arboricultural techniques. These techniques include a visual examination of the above-ground parts of each tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of insect attack, crown dieback, discoloured foliage, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the proximity of property and people. Except where specifically noted in the report, none of the trees examined were dissected, cored, probed, or climbed, and detailed root crown examinations involving excavation were not undertaken.

Notwithstanding the recommendations and conclusions made in this report, it must be recognized that trees are living organisms and their health and vigour constantly change over time. They are not immune to changes in site conditions, pests, or variations in the weather conditions including severe storms with high-speed winds. Furthermore, some symptoms may only be visible seasonally; the extent of observations that can be made may be limited by the time of year in which the inspection took place.

While reasonable efforts have been made to ensure that the trees recommended for retention are healthy unless stated otherwise within the report, no warranty or guarantees are offered, or implied, that these trees, or any parts of them, will have continued health or structure as noted in the report. It is both professionally and practically impossible to predict with absolute certainty the behaviour of any single tree or group of trees or their component parts in all circumstances. Inevitably, a standing tree will always pose some risk. Most trees have the potential for failure if provided with the necessary combinations of stresses and elements. This risk can only be eliminated if the tree is removed.

Although every effort has been made to ensure that this assessment is reasonably accurate, it is recommended that trees be re-assessed periodically to identify changes in condition. Design or site plan changes may also necessitate re-assessment and/or revisions to this report. **The assessment presented in this report is valid at the time of the inspection and is intended for sole use of the client.** Any use of this report by a third party, and any decision based on this report, is the singular responsibility of the third party.



# Appendix B

Tree Inventory Palgrave Estates



Tag/Tree No.	Scientific Name	Common Name	DBH (cm)	Crown Diameter (m)	Condition	Comments	TPZ radius (m)	Preservation Recommendation
1	Acer saccharum	Sugar Maple	62	10	Good		4.2	Preserve-In reforestation zone
2	Acer saccharum	Sugar Maple	20, 15, 25, 29	7	Good		2.4	Preserve-In reforestation zone
3	Acer saccharum	Sugar Maple	53	7	Good		3.6	Preserve-In reforestation zone
4	Acer saccharum	Sugar Maple	49	8	Good		3.0	Preserve-In reforestation zone
5	Acer negundo	Manitoba Maple	20	3	Fair	Epicormic shoots, poor form	2.4	Preserve-In reforestation zone
6	Acer saccharum	Sugar Maple	110	6	Fair-Good	One sided canopy, large wound on one side of trunk, wire fence embedded in trunk	6.0	Preserve-In reforestation zone
7	Acer saccharum	Sugar Maple	47	6	Good	One sided canopy	3.0	Preserve-In reforestation zone
8	Acer saccharum	Sugar Maple	16, 17	5	Fair-Poor	Large cavity in one stem, both leaders damaged	2.4	Preserve-In reforestation zone
9	Acer saccharum	Sugar Maple	23	2	Fair-Poor	Main leader almost dead, crown mainly epicormic growth	2.4	Preserve-In reforestation zone
10	Acer saccharum	Sugar Maple	18, 20	6	Fair	Poor form, one leader gone	2.4	Preserve-In reforestation zone
11	Acer saccharum	Sugar Maple	101	10	Good		6.0	Preserve-In reforestation zone
12	Acer saccharum	Sugar Maple	19	6	Good	Canopy one sided	2.4	Preserve
15	Acer saccharum	Sugar Maple	19, 15	5	Fair-Good	Poor form, canopy one sided	2.4	Preserve
16	Acer saccharum	Sugar Maple	96, 18	8	Good		6.0	Preserve
17	Acer saccharum	Sugar Maple	36	4	Fair-Poor	Large cavity in leader, large branches dead	2.4	Preserve
18	Acer saccharum	Sugar Maple	31	5	Good	Canopy one sided	2.4	Preserve
19	Acer saccharum	Sugar Maple	24	5	Good	Canopy one sided	2.4	Preserve
20	Acer saccharum	Sugar Maple	25, 16	5	Good	Canopy one sided	2.4	Preserve
21	Acer saccharum	Sugar Maple	28, 22, 30, 26, 28	7	Good	Included bark	2.4	Preserve
22	Acer saccharum	Sugar Maple	56	6	Good		3.6	Preserve
23	Acer saccharum	Sugar Maple	42, 50	7	Fair-Poor	Trunk severly damaged, dieback in crown	3.0	Preserve
24	Acer saccharum	Sugar Maple	115	10	Fair	Leader dead at the very top, wire fence embedded in trunk	6.0	Remove-Development
25	Acer saccharum	Sugar Maple	35	5	Fair-Good	Large branch broken, one sided canopy	2.4	Preserve
26	Acer saccharum	Sugar Maple	27	4	Fair	One sided canopy, wound in trunk	2.4	Preserve
27	Acer saccharum	Sugar Maple	45, 48	5	Fair-Good	One leader severly damaged	3	Remove-Development
28	Pinus sylvestris	Scott's Pine	28	4	Good		2.4	Preserve
29	Acer negundo	Manitoba Maple	17	5	Fair	Many epicormic shoots	2.4	Preserve-In reforestation zone
30	Acer negundo	Manitoba Maple	38, 45	11	Poor	Tree split in half, leaders damaged, many epicormic shoots, large cavities	3	Preserve-In reforestation zone
31	Acer negundo	Manitoba Maple	38, 32, 30	10	Fair-Poor	Poor form, many epicormic shoots	2.4	Preserve-In reforestation zone
32	Acer negundo	Manitoba Maple	51	10	Good		3.6	Preserve-In reforestation zone
33	Acer negundo	Manitoba Maple	52	9	Fair	Epicormic shoots, dead branches and cavities in trunk	3.6	Preserve-In reforestation zone
34	Acer negundo	Manitoba Maple	39, 18	7	Fair	Dead branches, epicormic shoots, included bark	2.4	Preserve-In reforestation zone
35	Acer negundo	Manitoba Maple	41, 40	6	Fair-Poor	Horizontal leader, all crown is epicormic shoots, branches growing within collapsed building	2.4	Preserve
36	Acer negundo	Manitoba Maple	20	4	Fair-Good	Leaning, dead branches	2.4	Remove-Development
37	Acer negundo	Manitoba Maple	17, 15	2	Poor	Tree fallen, mostly dead, live growth all epicormic shoots	2.4	Remove - Condition
38	Acer negundo	Manitoba Maple	25	5	Fair-Good	Thin canopy, many dead branches	2.4	Preserve



Tag/Tree No.	Scientific Name	Common Name	DBH (cm)	Crown Diameter (m)	Condition	Comments	TPZ radius (m)	Preservation Recommendation
39	Acer negundo	Manitoba Maple	43	6	Fair-Good	Growing in fence, dead branches and epicormic shoots	3.0	Preserve
40	Acer negundo	Manitoba Maple	25, 16	5	Fair-Poor	Many dead branches and epicormic shoots	2.4	Preserve
41	Acer negundo	Manitoba Maple	18	3	Poor	Many dead branches, wound in trunk, epicormic shoots	2.4	Remove - Condition
42	Acer negundo	Manitoba Maple	15	3	Poor	Heavy lean, dead branches, epicormic shoots	2.4	Remove - Condition
43	Acer negundo	Manitoba Maple	39	5	Fair	Heavy lean, dead branches, epicormic shoots	2.4	Preserve
44	Acer negundo	Manitoba Maple	28	6	Fair	Dead branches, epicormic shoots	2.4	Preserve
45	Acer negundo	Manitoba Maple	25	4	Fair-Poor	Many dead branches and epicormic shoots	2.4	Preserve
46	Thuja occidentalis	White Cedar	51	6	Fair-Good	One large branche dead, wooden structure in tree	3.6	Preserve
47	Acer negundo	Manitoba Maple	52	12	Fair	Dead branches and epicormic shoots	3.6	Preserve
48	Acer negundo	Manitoba Maple	17	4	Fair	Dead branches and epicormic shoots	2.4	Preserve
49	Acer negundo	Manitoba Maple	21	3	Fair	Dead branches and epicormic shoots	2.4	Preserve
50	Acer negundo	Manitoba Maple	31	3	Fair-Poor	Many dead and broken branches, epicormic shoots	2.4	Preserve
51	Acer negundo	Manitoba Maple	43	7	Fair	Dead branches, epicormic shoots	3	Preserve
52	Acer negundo	Manitoba Maple	19	1.5	Fair-Poor	Dead branches, epicormic shoots, large crack in trunk	2.4	Preserve
53	Acer negundo	Manitoba Maple	33, 18	3	Poor	Main branches broken, all growth epicormic shoots	2.4	Remove - Condition
54	Ulmus americana	American Elm	17	1	Poor	Almost dead	2.4	Remove - Condition
55	Acer negundo	Manitoba Maple	24	4	Fair	Many dead branches and epicormic shoots	2.4	Preserve
56	Acer negundo	Manitoba Maple	35	8	Good	Some epicormic shoots	2.4	Preserve
57	Acer negundo	Manitoba Maple	31, 32,20	7	Fair	Many dead branches, large branches broken, many epicormic shoots	2.4	Preserve
58	Acer negundo	Manitoba Maple	15	4	Fair	Dead branches, epicormic shoots	2.4	Preserve
59	Acer negundo	Manitoba Maple	16	4	Fair	Dead branches, epicormic shoots	2.4	Preserve
60	Acer negundo	Manitoba Maple	52, 38	11	Fair	Large cavities, epicormic shoots and dead branches	3.6	Preserve
61	Acer negundo	Manitoba Maple	49	6	Fair	Many dead branches, epicormic shoots	3	Preserve
62	Pinus sylvestris	Scott's Pine	16	3	Good		2.4	Preserve
63	Acer negundo	Manitoba Maple	36	6	Fair-Good	Dead branches and epicormic shoots	2.4	Preserve
64	Acer negundo	Manitoba Maple	25	4	Poor	Crown all epicormic shoots, branches dead	2.4	Remove - Condition
65	Acer negundo	Manitoba Maple	28, 30	7	Fair	Dead branches and epicormic shoots	2.4	Preserve
66	Acer negundo	Manitoba Maple	22	2	Fair-Poor	Leader broken, all growth epicormic shoots, leaning	2.4	Preserve
67	Acer negundo	Manitoba Maple	26, 18	5	Poor	Main branches broken, all growth epicormic shoots	2.4	Remove - Condition
68	Acer negundo	Manitoba Maple	32	4	Fair-Poor	Main branches broken, many epicormic shoots and dead branches	2.4	Remove-Development
69	Acer negundo	Manitoba Maple	22	5	Fair-Poor	Debris at base, epicormic shoots, main branch broken	2.4	Remove-Development
70	Acer negundo	Manitoba Maple	28, 18	7	Fair-Good		2.4	Remove-Development
71	Acer negundo	Manitoba Maple	29	4	Fair-Poor	One main branch broken, many epicormic shoots	2.4	Remove-Development
72	Acer negundo	Manitoba Maple	38, 19	7	Fair-Good	Epicromic shoots and dead branches	2.4	Remove-Development
73	Acer negundo	Manitoba Maple	15, 30, 26	4	Fair-Poor	One leader dead, other branches broken, many epicormic shoots	2.4	Remove-Development
74	Acer negundo	Manitoba Maple	25, 20	2	Fair	Large leaders cut, crown all epicormic shoots	2.4	Preserve



Tag/Tree No.	Scientific Name	Common Name	DBH (cm)	Crown Diameter (m)	Condition	Comments	TPZ radius (m)	Preservation Recommendation
75	Acer negundo	Manitoba Maple	26	4	Fair	Large leaders cut, crown all epicormic shoots	2.4	Preserve
76	Acer negundo	Manitoba Maple	24	4	Fair	Large branches dead, epicormic shoots	2.4	Preserve
77	Acer negundo	Manitoba Maple	17, 15, 16	5	Fair	Dead branches and epicormic shoots	2.4	Remove-Development
78	Acer negundo	Manitoba Maple	25, 30	6	Fair-Good	Epicormic shoots	2.4	Remove-Development
79	Acer negundo	Manitoba Maple	29, 22	5	Fair-Good	Epicormic shoots	2.4	Remove-Development
80	Acer negundo	Manitoba Maple	25, 20	3	Fair-Poor	One large branch dead, many dead branches and epicormic shoots	2.4	Remove-Development
81	Acer negundo	Manitoba Maple	28	3	Fair	Many epicormic shoots and dead branches	2.4	Preserve
82	Acer negundo	Manitoba Maple	26	4	Poor	Roots upheaved, main leader gone, all growth epicormic shoots	2.4	Remove-Development
83	Acer negundo	Manitoba Maple	31	8	Good	Epicormic shoots	2.4	Remove-Development
84	Acer negundo	Manitoba Maple	38	7	Good	Dead branches, epicormic shoots	2.4	Remove-Development
85	Acer negundo	Manitoba Maple	24	4	Fair-Good	Dead branches, epicormic shoots	2.4	Remove-Development
86	Acer negundo	Manitoba Maple	35	4	Fair-Good	Dead branches, epicormic shoots	2.4	Remove-Development
87	Acer negundo	Manitoba Maple	34	6	Fair-Good	Trunk damaged, epicormic shoots and dead branches	2.4	Remove-Development
88	Acer negundo	Manitoba Maple	37	5	Good	Some epicormic shoots	2.4	Remove-Development
89	Acer negundo	Manitoba Maple	58, 20, 25	7	Fair-Poor	Many large broken and dead branches, many epicormic shoots	3.6	Remove-Development
90	Acer negundo	Manitoba Maple	41, 25	8	Fair	One leader broken and dead, many epicormic shoots	3	Remove-Development
91	Acer negundo	Manitoba Maple	54	5	Poor	Main trunk broken, all branches gone, all growth epicormic shoots, large cavities	3.6	Remove-Development
92	Acer negundo	Manitoba Maple	55	4	Poor	Main trunk broken, all branches gone, all growth epicormic shoots, large cavities	3.6	Remove-Development
93	Acer negundo	Manitoba Maple	48	8	Fair-Poor	Some large branches broken, many epicormic shoots	3	Preserve
94	Picea abies	Norway Spruce	75	11	Good		4.8	Remove-Development
95	Picea abies	Norway Spruce	46	6	Fair-Good	Shaded by 94	3	Remove-Development
96	Acer negundo	Manitoba Maple	60	7	Fair	One large branch broken, many broken branches and epicormic shoots	3.6	Remove-Development
97	Acer negundo	Manitoba Maple	50	5	Poor	Trunk rotted and broken, large cavities, all growth epicormic shoots	3	Remove-Development
98	Acer negundo	Manitoba Maple	60	9	Fair-Poor	Large branch dead, many dead branches and epicormic shoots	3.6	Remove-Development
99	Acer negundo	Manitoba Maple	42	7	Fair-Poor	Tree growing over large dead stump, very poor form, dead branches, epicormic shoots	3	Remove-Development
100	Acer negundo	Manitoba Maple	30, 26, 22, 22, 15, 15, 26, 16	8	Fair	Some branches horizontal along ground, many epicormic shoots	2.4	Remove-Development
101	Acer negundo	Manitoba Maple	24	3	Fair	Trunk horizontal along ground	2.4	Preserve
102	Acer negundo	Manitoba Maple	31	6	Good	Epicormic shoots	2.4	Preserve
103	Acer negundo	Manitoba Maple	48	5	Fair	Large branch dead, many epicormic shoots, debris pile at base	3	Preserve
104	Acer negundo	Manitoba Maple	65	10	Fair-Poor	Large branch broken, included bark, dead branches, large cavities, epicormic shoots,	4.2	Preserve
105	Acer negundo	Manitoba Maple	30	5	Good	Epicormic shoots	2.4	Remove-Development
106	Acer negundo	Manitoba Maple	22	6	Fair-Good	Epicormic shoots and dead branches	2.4	Remove-Development



Tag/Tree No.	Scientific Name	Common Name	DBH (cm)	Crown Diameter (m)	Condition	Comments	TPZ radius (m)	Preservation Recommendation
107	Acer negundo	Manitoba Maple	15, 21	5	Good	Epicormic shoots, leaning	2.4	Remove-Development
108	Acer negundo	Manitoba Maple	35	4	Fair-Good	Large branches dead, epicormic shoots	2.4	Remove-Development
109	Acer negundo	Manitoba Maple	21	3	Fair-Good	Epicormic shoots	2.4	Remove-Development
110	Acer negundo	Manitoba Maple	30	4	Fair-Good	Epicormic shoots	2.4	Remove-Development
111	Acer negundo	Manitoba Maple	18, 17	4	Fair-Good	Epicormic shoots	2.4	Remove-Development
112	Acer negundo	Manitoba Maple	20	4	Poor	Large broken branches, poor form, epicormic shoots	2.4	Remove-Development
113	Acer negundo	Manitoba Maple	16	2	Good	Some epicormic shoots	2.4	Remove-Development
114	Acer negundo	Manitoba Maple	16, 12	3	Fair-Good	Many epicormic shoots and dead branches	2.4	Remove-Development
115	Acer negundo	Manitoba Maple	21	5	Fair-Poor	Dead branches and epicormic shoots, growing within old barn partially	2.4	Remove-Development
116	Acer negundo	Manitoba Maple	27	6	Fair-Good	Many epicormic shoots	2.4	Remove-Development
117	Acer negundo	Manitoba Maple	25, 26	8	Fair-Poor	Very poor form, many epicormic shoots and dead branches	2.4	Remove-Development
118	Acer negundo	Manitoba Maple	21, 27	7	Fair-Good	Included bark and epicormic shoots	2.4	Remove-Development
119	Acer negundo	Manitoba Maple	22	6	Fair-Good	Poor form, empicormic shoots	2.4	Remove-Development
120	Acer negundo	Manitoba Maple	16	3	Fair	Many epicormic shoots, dead branches, poor form	2.4	Remove-Development
121	Acer negundo	Manitoba Maple	25, 12, 22	6	Fair-Poor	Main stem horizontal along ground, all growth large epicormic shoots	2.4	Remove-Development
122	Acer negundo	Manitoba Maple	33	6	Fair	Dead branches, epicormic shoots	2.4	Remove-Development
123	Acer negundo	Manitoba Maple	26	5	Fair-Good	Dead branches, epicormic shoots	2.4	Remove-Development
124	Acer negundo	Manitoba Maple	15	4	Fair-Good	Dead branches, epicormic shoots	2.4	Remove-Development
125	Acer negundo	Manitoba Maple	15, 10, 8	5	Fair	Very poor form, one leader dead, branches fused, epicormic shoots	2.4	Remove-Development
126	Acer negundo	Manitoba Maple	25, 18	5	Fair-Good	Dead branches and epicormic shoots, included bark	2.4	Remove-Development
127	Pinus sylvestris	Scott's Pine	36	5	Good		2.4	Preserve
128	Acer saccharum	Sugar Maple	16, 12	3	Fair-Good	Leader damaged, one sided canopy	2.4	Preserve
129	Acer saccharum	Sugar Maple	18	3	Fair-Good	One sided canopy	2.4	Preserve
130	Acer negundo	Manitoba Maple	20, 21	5	Fair	Poor form, epicormic shoots, dead branches	2.4	Preserve
131	Acer negundo	Manitoba Maple	19, 11	4	Fair-Good	Poor form, epicormic shoots, dead branches	2.4	Preserve
132	Juglans nigra	Black Walnut	16	5	Good	One sided canopy	2.4	Preserve
133	Acer negundo	Manitoba Maple	22, 25	5	Fair-Good	Epicormic shoots	2.4	Preserve
134	Pinus sylvestris	Scott's Pine	41, 24	6	Good		3	Preserve
135	Pinus sylvestris	Scott's Pine	43	7	Good		3	Preserve
136	Pinus sylvestris	Scott's Pine	26, 11	4	Good		2.4	Preserve
137	Pinus sylvestris	Scott's Pine	26	4	Good		2.4	Preserve
138	Pinus sylvestris	Scott's Pine	15	3	Good		2.4	Preserve
139	Pinus sylvestris	Scott's Pine	37	7	Good		2.4	Preserve
140	Pinus sylvestris	Scott's Pine	35	6	Good	One sided canopy	2.4	Preserve
141	Pinus sylvestris	Scott's Pine	29	6	Good		2.4	Preserve
142	Pinus sylvestris	Scott's Pine	33	6	Fair		2.4	Preserve
143	Acer negundo	Manitoba Maple	28	7	Fair	Leader dead, epicormic shoots and dead branches	2.4	Preserve



Tag/Tree No.	Scientific Name	Common Name	DBH (cm)	Crown Diameter (m)	Condition	Comments	TPZ radius (m)	Preservation Recommendation
144	Pinus sylvestris	Scott's Pine	31	6	Good		2.4	Preserve
145	Pinus sylvestris	Scott's Pine	33	6	Good		2.4	Preserve
146	Pinus sylvestris	Scott's Pine	30	5	Fair-Good	Die back in crown	2.4	Preserve
147	Pinus sylvestris	Scott's Pine	16	4	Fair-Good	Die back in crown	2.4	Preserve
148	Pinus sylvestris	Scott's Pine	35	6	Good	Thin canopy	2.4	Preserve
149	Pinus sylvestris	Scott's Pine	26	4	Fair-Good	Thin canopy	2.4	Preserve
150	Pinus sylvestris	Scott's Pine	25	4	Fair	Thin canopy	2.4	Preserve
151	Pinus sylvestris	Scott's Pine	18	4	Fair-Good	Thin canopy	2.4	Preserve
152	Pinus sylvestris	Scott's Pine	19	3	Good		2.4	Preserve
153	Acer negundo	Manitoba Maple	60, 65	13	Fair-Good	Wood platform in between two leaders, many epicormic shoots	4.2	Remove-Development
154	Acer negundo	Manitoba Maple	36, 42	5	Fair-Poor	One leader dead, leaning on 155, dead branches and epicormic shoots	3	Remove-Development
155	Acer negundo	Manitoba Maple	42, 45	7	Fair-Good	Dead branches and epicormic shoots	3	Remove-Development
156	Pinus sylvestris	Scott's Pine	25	5	Good		2.4	Preserve-In reforestation zone
157	Pinus sylvestris	Scott's Pine	22	4	Good		2.4	Preserve-In reforestation zone
158	Acer negundo	Manitoba Maple	60, 55, 38, 43	15	Good	Some dead branches and epicormic shoots	3.6	Preserve-In reforestation zone
159	Acer negundo	Manitoba Maple	32, 20	5	Good	Some epicormic shoots	2.4	Preserve-In reforestation zone
160	Acer negundo	Manitoba Maple	38, 29	8	Good	Some dead branches	2.4	Preserve
161	Acer negundo	Manitoba Maple	51, 42, 45, 46	10	Fair-Good	Some large branches dead, epicormic shoots	3.6	Remove-Development
162	Acer negundo	Manitoba Maple	35, 25, 16	6	Fair	Many dead branches and epicormic shoots, poor form	2.4	Preserve
163	Acer negundo	Manitoba Maple	38, 30	7	Good	Some epicormic shoots	2.4	Preserve
164	Acer negundo	Manitoba Maple	60, 50	10	Fair-Good	Many epicormic shoots, some large branches dead	3.6	Preserve
165	Acer negundo	Manitoba Maple	48, 22, 18, 28, 36, 30	13	Fair-Poor	Horizontal stems, poor form, leaders split, dead branches, epicormic shoots	3	Preserve
166	Acer negundo	Manitoba Maple	31, 18, 19, 14	8	Fair-Good	Poor form, epicormic shoots, dead branches	2.4	Preserve
167	Acer negundo	Manitoba Maple	25, 36, 33, 52	11	Fair-Good	Leader cracked, dead branches, epicormic shoots, horizontal leader, poor form	3.6	Preserve
168	Acer negundo	Manitoba Maple	50	6	Fair-Good	One sided canopy, epicormic shoots, dead branches	3	Preserve
169	Acer negundo	Manitoba Maple	50, 38	9	Fair	Poor form, fence embedded in trunk, epicormic shoots,	3	Preserve
170	Acer negundo	Manitoba Maple	52, 48, 65	13	Fair-Good	Some dead branches and epicormic shoots, horizontal stem	4.2	Preserve
171	Pinus sylvestris	Scott's Pine	21	4	Good		2.4	Preserve-In reforestation zone
172	Pinus sylvestris	Scott's Pine	19	3	Fair-Good	Canopy thin	2.4	Preserve-In reforestation zone
173	Pinus sylvestris	Scott's Pine	23	4	Good		2.4	Preserve-In reforestation zone
174	Pinus sylvestris	Scott's Pine	16	3	Good		2.4	Preserve-In reforestation zone
176	Pinus sylvestris	Scott's Pine	18	7	Good		2.4	Preserve-In reforestation zone
177	Pinus sylvestris	Scott's Pine	16	3	Fair-Good	Leader damaged	2.4	Preserve-In reforestation zone
178	Pinus sylvestris	Scott's Pine	22	6	Good		2.4	Preserve-In reforestation zone
179	Pinus sylvestris	Scott's Pine	18	4	Good		2.4	Preserve-In reforestation zone



Tag/Tree No.	Scientific Name	Common Name	DBH (cm)	Crown Diameter (m)	Condition	Comments	TPZ radius (m)	Preservation Recommendation
180	Pinus sylvestris	Scott's Pine	26	6	Good		2.4	Preserve
181	Pinus sylvestris	Scott's Pine	17	4	Good		2.4	Preserve
182	Pinus sylvestris	Scott's Pine	15	4	Fair-Good	Large branch broken	2.4	Preserve
183	Pinus sylvestris	Scott's Pine	16	4	Good		2.4	Preserve
184	Pinus sylvestris	Scott's Pine	19	4	Fair-Good	Dead branches	2.4	Preserve-In reforestation zone
185	Pinus sylvestris	Scott's Pine	22	5	Good		2.4	Preserve
186	Pinus sylvestris	Scott's Pine	17	4	Fair-Good	Poor form	2.4	Preserve
187	Pinus sylvestris	Scott's Pine	22	5	Good		2.4	Preserve
188	Pinus sylvestris	Scott's Pine	19, 20	5	Good		2.4	Preserve
189	Pinus sylvestris	Scott's Pine	24	6	Good		2.4	Remove-Development
190	Pinus sylvestris	Scott's Pine	16, 20	5	Good		2.4	Remove-Development
191	Pinus sylvestris	Scott's Pine	16	3	Good		2.4	Remove-Development
192	Pinus sylvestris	Scott's Pine	22	4	Good		2.4	Remove-Development
193	Pinus sylvestris	Scott's Pine	23	4	Good		2.4	Remove-Development
194	Pinus sylvestris	Scott's Pine	28	6	Good		2.4	Preserve
195	Pinus sylvestris	Scott's Pine	26	5	Fair-Good	Lower branches dead	2.4	Preserve
196	Pinus sylvestris	Scott's Pine	13, 17	3	Fair-Good	Lower branches dead	2.4	Preserve
197	Pinus sylvestris	Scott's Pine	19	4	Good		2.4	Preserve
198	Pinus sylvestris	Scott's Pine	15, 17	3	Fair-Good		2.4	Preserve
199	Pinus sylvestris	Scott's Pine	15	3	Good		2.4	Preserve
200	Pinus sylvestris	Scott's Pine	25	5	Fair-Poor	All lower branches dead, very thin canopy	2.4	Preserve
765	Pinus sylvestris	Scott's Pine	25	5	Good		2.4	Preserve
3525	Pinus sylvestris	Scott's Pine	30	5	Good		2.4	Preserve-In reforestation zone
1B	Pinus sylvestris	Scott's Pine	20, 36	6	Fair	Many dead branches	2.4	Preserve-In reforestation zone
201	Acer negundo	Manitoba Maple	36, 15, 5	8	Fair-Good		2.4	Preserve
202	Acer negundo	Manitoba Maple	38, 22	12	Fair-Good	Dead branches, epicormic shoots	2.4	Preserve
203	Acer negundo	Manitoba Maple	20	5	Poor	Horizontal to ground, all epicormic shoots	2.4	Preserve
204	Acer negundo	Manitoba Maple	25	6	Fair	Dead branches, epicormic shoots	2.4	Preserve
205	Acer negundo	Manitoba Maple	38, 36, 39	11	Fair	Dead branches, epicormic shoots	2.4	Preserve
206	Acer negundo	Manitoba Maple	18	6	Fair-Poor	Epicormic shoots, growing on embankment	2.4	Preserve
207	Acer negundo	Manitoba Maple	39	8	Fair	Dead branches, epicormic shoots	2.4	Preserve
208	Acer negundo	Manitoba Maple	41, 36, 30	8	Fair-Good		3	Preserve
209	Acer negundo	Manitoba Maple	18	4	Good	Growing on embankment, leaning into neighbour's yard	2.4	Preserve
210	Acer negundo	Manitoba Maple	41	6	Fair	Dead branches, leaning over field, epicormic shoots	3	Preserve
211	Acer negundo	Manitoba Maple	20	5	Good		2.4	Preserve
212	Acer negundo	Manitoba Maple	55, 40, 36, 31	12	Fair-Good	Epicormic shoots, dead branches, growing on embankment	3.6	Preserve
213	Acer negundo	Manitoba Maple	50, 43	7	Fair	Dead branches, leaning over field, epicormic shoots	3.6	Preserve
214	Acer negundo	Manitoba Maple	45, 36, 21	12	Fair-Good	Dead branches, epicormic shoots	3	Preserve



Tag/Tree No.	Scientific Name	Common Name	DBH (cm)	Crown Diameter (m)	Condition	Comments	TPZ radius (m)	Preservation Recommendation
215	Acer negundo	Manitoba Maple	48, 42	8	Fair	Leaning over field	3	Preserve
216	Acer negundo	Manitoba Maple	58	7	Fair		3.6	Preserve
217	Acer negundo	Manitoba Maple	36	5	Fair	Dead branches, epicormic shoots, on PL leaning over neighbour's	2.4	Preserve
218	Acer negundo	Manitoba Maple	42	6	Good		3	Preserve
219	Acer negundo	Manitoba Maple	38	4	Fair-Good	Leaning over neighbour's	2.4	Preserve
220	Acer negundo	Manitoba Maple	35	5	Good	Dead branches, epicormic shoots	2.4	Preserve
221	Acer negundo	Manitoba Maple	38	5	Good		2.4	Preserve-In reforestation zone
222	Acer negundo	Manitoba Maple	22, 16	5	Good	Dead branches	2.4	Preserve-In reforestation zone
223	Acer negundo	Manitoba Maple	16	3	Fair-Good		2.4	Preserve-In reforestation zone
224	Tilia americana	Basswood	16	3	Good		2.4	Preserve-In reforestation zone
225	Acer negundo	Manitoba Maple	17	3	Fair-Good	Poor form	2.4	Preserve-In reforestation zone
226	Acer negundo	Manitoba Maple	55	8	Poor	Poor form	3.6	Preserve-In reforestation zone
227	Acer negundo	Manitoba Maple	18	3	Poor	All epicormic shoots	2.4	Preserve-In reforestation zone
228	Acer saccharum	Sugar Maple	25	5	Good		2.4	Preserve-In reforestation zone