



Environmental Assessments & Approvals

June 15, 2021

AEC 20-243

Sandy Creek Estates Inc.
2021 James Street
Burlington, Ontario
L7R 1H2

Attention: Kelly Lagace,
Development Project Manager

**Re: Tree Inventory and Assessment for Proposed Residential Development
969, 979 & 989 Mapleview Drive East, City of Barrie**

Dear Kelly:

Azimuth Environmental Consulting, Inc. (Azimuth) is pleased to provide this letter and attached tables/mapping as part of our preliminary assessment of trees located on the 969, 979 & 989 Mapleview Drive East, City of Barrie properties.

Our field visit (which occurred on May 25th, 2021) included an inventory of all individual trees and tree groupings (10 cm dbh or greater) located on the properties or just outside the property boundaries (within approximately 5 metres). Tree assessments included documentation of the following characteristics:

- o Inventory of all individual trees and tree groupings located on or within approximately 5 metres of the subject properties, including all trees with a dbh (diameter at breast height) of at least 10 cm. Trunk diameter measurements were taken at approximately 1.4 metres (4.5') above ground surface at the base of each tree.
- o Recorded species (common and scientific names), dbh (cm) and condition/health status of all applicable trees. Tree health assessments were graded as either 'Good', 'Fair', 'Poor' or 'Dead' based on factors such as percentage of live crown, evidence of internal trunk rot/damage, tree structure/form and disease.
- o Recorded location of each tree using a hand-held GPS unit (accuracy +/- 3 metres) to plot tree locations relative to the proposed limits of disturbance.

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- o Identified each inventoried tree using a unique number corresponding to the tree inventory table and mapping. Trees were also tagged in the field using the same numbering system. Neighbouring trees located outside property boundaries were not tagged in the field.

The majority of trees were found within hedgerow features along the boundaries of the 979 & 989 Maplevue Drive East properties. Several trees were also found within the 969 Maplevue Drive East residential property. The hedgerow features primarily contained mature native species such as White Ash, Sugar Maple, American Basswood, Ironwood, Black Cherry and American Elm. Health conditions varied between poor (primarily White Ash) and good. No trees included in the inventory should be considered significant by the City of Barrie, as no Species at Risk/Endangered species were found. Some large/mature trees were documented (e.g., 483, 498), but the City does not generally take size into consideration when deciding if a tree should be preserved.

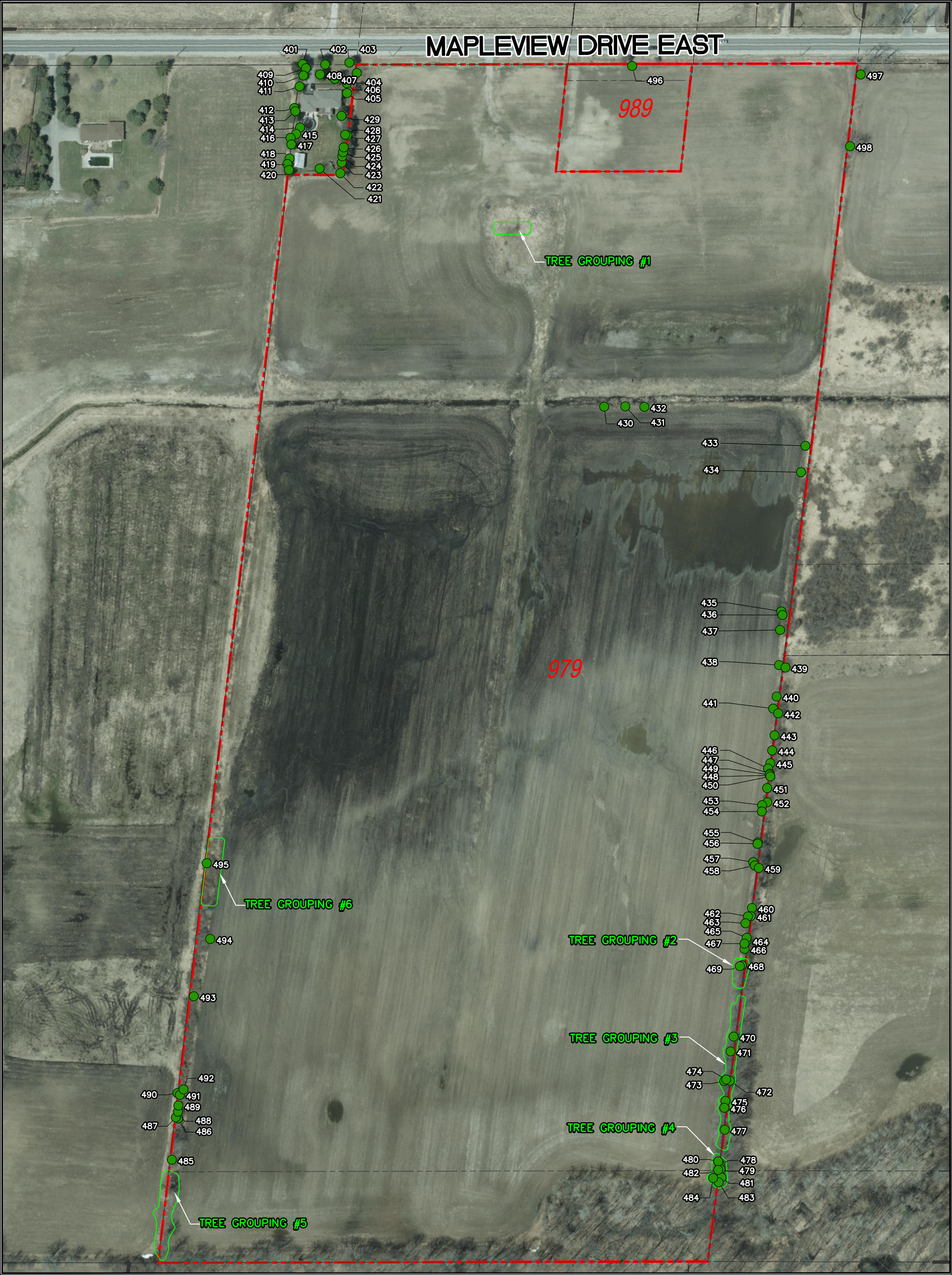
The trees documented within the 969 Maplevue Drive East residential property primarily contained coniferous landscape trees including Scots Pine, Norway Spruce and White Spruce. Similar to the 979 and 989 Maplevue Drive East properties, there were no significant trees documented during the tree inventory. As this property had not been previously assessed for vegetation, Azimuth also searched for Butternut trees during the initial field visit. No Butternut or other endangered tree species were found.

Please refer to the attached Table 1 (Individual Tree Inventory and Assessment Table), Table 2 (Tree Grouping Inventory and Assessment Table) and Figure 1 (Tree Locations) for a complete list for species, sizes and health conditions, along with locations of all trees included in the inventory.

If you have any questions please feel free to contact the undersigned.

Yours truly,
AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Drew West, Dipl.T. (Env)
ISA Certified Arborist



LEGEND:

- APPROX. PROPERTY BOUNDARY
- EXISTING TREE LOCATION
- TREE GROUPING BOUNDARY

TREE LOCATION PLAN

SANDY CREEK ESTATES INC. NHE
BARRIE, ON



ENVIRONMENTAL ASSESSMENTS & APPROVALS

DATE ISSUED: SEPTEMBER 2021

CREATED BY: A.L.

PROJECT NO.: 20-243

REFERENCE: SIMCOE COUNTY

Figure No.

1

Plotted by: ALIU on September 9, 2021 at 12:44pm
File: Q:\20 Projects\20-243 Sandy Creek Estates Inc NHE\04.0 - Drafting\20-243 Tree Locations.dwg Layout: Tree Location Plan Plot scale: 1

Table 1: Individual Tree Inventory and Assessment Table

Tree ID #	Common Name	Scientific Name	DBH (cm)	Condition Rating	Notes
401	Norway Spruce	<i>Picea abies</i>	29	Poor	Significant Amount of Crown Dieback
402	White Spruce	<i>Picea glauca</i>	45	Poor	Significant Amount of Crown Dieback
403	White Spruce	<i>Picea glauca</i>	36	Dead	Dead Tree
404	Red Oak	<i>Quercus rubra</i>	46	Good	Good Overall Health Condition
405	Scots Pine	<i>Pinus sylestris</i>	26	Fair	Some Crown Dieback, Poor Crown Structure
406	White Birch	<i>Betula papyrifera</i>	20 + 18	Good	Good Overall Health Condition, 2 Stems
407	White Spruce	<i>Picea glauca</i>	40	Good	Good Overall Health Condition
408	White Spruce	<i>Picea glauca</i>	35	Good	Good Overall Health Condition
409	Norway Spruce	<i>Picea abies</i>	52	Good	Good Overall Health Condition
410	Scots Pine	<i>Pinus sylestris</i>	27	Fair	Some Crown Dieback, Leaning
411	Scots Pine	<i>Pinus sylestris</i>	28	Good	Good Overall Health Condition
412	Scots Pine	<i>Pinus sylestris</i>	28	Good	Good Overall Health Condition
413	Scots Pine	<i>Pinus sylestris</i>	44	Good	Good Overall Health Condition
414	Norway Maple	<i>Acer platanoides</i>	46	Good	Good Overall Health Condition
415	Scots Pine	<i>Pinus sylestris</i>	20	Poor	Significant Amount of Crown Dieback
416	Scots Pine	<i>Pinus sylestris</i>	21	Fair	Some Crown Dieback
417	Scots Pine	<i>Pinus sylestris</i>	28 + 23	Good	Good Overall Health Condition, 2 Stems
418	Scots Pine	<i>Pinus sylestris</i>	25	Fair	Some Crown Dieback, Poor Crown Structure
419	Scots Pine	<i>Pinus sylestris</i>	25	Fair	Some Crown Dieback, Poor Crown Structure
420	Scots Pine	<i>Pinus sylestris</i>	32	Good	Good Overall Health Condition
421	American Basswood	<i>Tilia americana</i>	37	Fair	Cracks In Trunk, Some Rotting Evident
422	Scots Pine	<i>Pinus sylestris</i>	40	Dead	Dead Tree
423	Scots Pine	<i>Pinus sylestris</i>	26	Good	Good Overall Health Condition
424	Scots Pine	<i>Pinus sylestris</i>	29	Good	Good Overall Health Condition
425	Scots Pine	<i>Pinus sylestris</i>	27	Fair	Some Crown Dieback, Poor Crown Structure
426	Scots Pine	<i>Pinus sylestris</i>	25	Good	Good Overall Health Condition
427	Scots Pine	<i>Pinus sylestris</i>	27	Good	Good Overall Health Condition
428	Scots Pine	<i>Pinus sylestris</i>	27	Good	Good Overall Health Condition

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Tree ID #	Common Name	Scientific Name	DBH (cm)	Condition Rating	Notes
429	White Spruce	<i>Picea glauca</i>	37	Good	Good Overall Health Condition
430	Balsam Poplar	<i>Populus balsamifera</i>	15	Good	Good Overall Health Condition
431	Balsam Poplar	<i>Populus balsamifera</i>	13	Good	Good Overall Health Condition
432	Balsam Poplar	<i>Populus balsamifera</i>	18	Good	Good Overall Health Condition
433	Willow spp.	<i>Salix spp.</i>	20	Poor	Significant Amount of Crown Dieback
434	Willow spp.	<i>Salix spp.</i>	16	Poor	Significant Amount of Crown Dieback
435	Common Apple	<i>Malus pumila</i>	23	Poor	Significant Amount of Crown Dieback, Wild Grape Growing in Crown
436	White Ash	<i>Fraxinus americana</i>	19	Fair	Some Crown Dieback, Wild Grape Growing in Crown
437	White Ash	<i>Fraxinus americana</i>	15	Good	Good Overall Health Condition
438	American Basswood	<i>Tilia americana</i>	17 + 14	Good	Good Overall Health Condition, 2 Stems
439	Black Walnut	<i>Juglans nigra</i>	41	Fair	Some Crown Dieback
440	American Elm	<i>Ulmus americana</i>	48	Good	Good Overall Health Condition
441	White Ash	<i>Fraxinus americana</i>	20	Good	Good Overall Health Condition
442	Common Apple	<i>Malus pumila</i>	30	Fair	Some Crown Dieback, Tree on Neighbouring Property
443	White Ash	<i>Fraxinus americana</i>	14	Poor	Significant Amount of Crown Dieback, Tree on Neighbouring Property
444	White Ash	<i>Fraxinus americana</i>	20	Poor	Good Overall Health Condition
445	White Ash	<i>Fraxinus americana</i>	26	Poor	Good Overall Health Condition
446	Common Apple	<i>Malus pumila</i>	25	Good	Good Overall Health Condition
447	White Ash	<i>Fraxinus americana</i>	20	Poor	Significant Amount of Crown Dieback, Tree on Neighbouring Property
448	Sugar Maple	<i>Acer saccharum</i>	28 + 18	Good	Good Overall Health Condition, 2 Stems
449	White Ash	<i>Fraxinus americana</i>	25 + 24 + 22	Poor	Significant Amount of Crown Dieback, Tree on Neighbouring Property
450	White Ash	<i>Fraxinus americana</i>	25	Poor	Significant Amount of Crown Dieback, Tree on Neighbouring Property
451	American Mountain Ash	<i>Sorbus americana</i>	23	Poor	Significant Amount of Crown Dieback, Tree on Neighbouring Property
452	American Mountain Ash	<i>Sorbus americana</i>	40	Poor	Significant Amount of Crown Dieback
453	White Ash	<i>Fraxinus americana</i>	15	Fair	Some Crown Dieback, Leaning
454	American Elm	<i>Ulmus americana</i>	38	Poor	Significant Amount of Crown Dieback
455	White Ash	<i>Fraxinus americana</i>	12	Good	Good Overall Health Condition
456	Norway Maple	<i>Acer platanoides</i>	40	Poor	Significant Amount of Crown Dieback

Table 1: Individual Tree Inventory and Assessment Table

Tree ID #	Common Name	Scientific Name	DBH (cm)	Condition Rating	Notes
457	American Elm	<i>Ulmus americana</i>	35	Good	Good Overall Health Condition
458	Common Apple	<i>Malus pumila</i>	20 + 15	Good	Good Overall Health Condition, 2 Stems
459	White Ash	<i>Fraxinus americana</i>	28 + 20	Poor	Significant Amount of Crown Dieback, Tree on Neighbouring Property
460	Ironwood	<i>Ostrya virginiana</i>	18	Good	Good Overall Health Condition
461	Ironwood	<i>Ostrya virginiana</i>	13	Good	Good Overall Health Condition
462	Sugar Maple	<i>Acer saccharum</i>	30	Good	Good Overall Health Condition
463	American Elm	<i>Ulmus americana</i>	16	Good	Good Overall Health Condition
464	Ironwood	<i>Ostrya virginiana</i>	20	Good	Good Overall Health Condition
465	Ironwood	<i>Ostrya virginiana</i>	16	Good	Good Overall Health Condition
466	Ironwood	<i>Ostrya virginiana</i>	23	Good	Good Overall Health Condition
467	White Ash	<i>Fraxinus americana</i>	21	Good	Good Overall Health Condition
468	Ironwood	<i>Ostrya virginiana</i>	20 + 14	Good	Good Overall Health Condition, 2 Stems
469	White Ash	<i>Fraxinus americana</i>	23	Poor	Significant Amount of Crown Dieback
470	Black Cherry	<i>Prunus serotina</i>	27	Fair	Some Crown Dieback, Leaning
471	American Basswood	<i>Tilia americana</i>	50 + 40 + 25	Good	Good Overall Health Condition, 3 Stems
472	White Ash	<i>Fraxinus americana</i>	40	Fair	Some Crown Dieback, Leaning
473	American Elm	<i>Ulmus americana</i>	14	Good	Good Overall Health Condition
474	Black Cherry	<i>Prunus serotina</i>	51	Good	Good Overall Health Condition
475	Black Cherry	<i>Prunus serotina</i>	51	Poor	Significant Amount of Crown Dieback, Leaning
476	Black Cherry	<i>Prunus serotina</i>	42	Poor	Significant Amount of Crown Dieback, Leaning
477	American Basswood	<i>Tilia americana</i>	41	Good	Good Overall Health Condition
478	Black Cherry	<i>Prunus serotina</i>	65 + 42	Poor	Significant Amount of Crown Dieback, Poor Crown Structure
479	Black Cherry	<i>Prunus serotina</i>	32	Fair	Some Crown Dieback
480	Sugar Maple	<i>Acer saccharum</i>	16	Good	Good Overall Health Condition
481	Sugar Maple	<i>Acer saccharum</i>	16	Good	Good Overall Health Condition
482	Sugar Maple	<i>Acer saccharum</i>	55	Good	Good Overall Health Condition
483	Sugar Maple	<i>Acer saccharum</i>	62	Good	Good Overall Health Condition
484	Black Cherry	<i>Prunus serotina</i>	48	Fair	Some Crown Dieback
485	White Ash	<i>Fraxinus americana</i>	16	Poor	Significant Amount of Crown Dieback, Leaning

Table 1: Individual Tree Inventory and Assessment Table

Tree ID #	Common Name	Scientific Name	DBH (cm)	Condition Rating	Notes
486	White Ash	<i>Fraxinus americana</i>	18	Good	Good Overall Health Condition
487	White Ash	<i>Fraxinus americana</i>	34	Fair	Some Crown Dieback
488	American Mountain Ash	<i>Sorbus americana</i>	20	Poor	Significant Amount of Crown Dieback, Wild Grape Growing in Crown
489	American Elm	<i>Ulmus americana</i>	21	Poor	Significant Amount of Crown Dieback
490	American Elm	<i>Ulmus americana</i>	22	Poor	Significant Amount of Crown Dieback
491	White Ash	<i>Fraxinus americana</i>	12	Fair	Some Crown Dieback, Leaning
492	White Ash	<i>Fraxinus americana</i>	13	Poor	Significant Amount of Crown Dieback
493	White Ash	<i>Fraxinus americana</i>	21	Fair	Some Crown Dieback
494	American Elm	<i>Ulmus americana</i>	17	Good	Good Overall Health Condition
495	American Elm	<i>Ulmus americana</i>	23	Good	Good Overall Health Condition
496	Black Cherry	<i>Prunus serotina</i>	43	Poor	Significant Amount of Crown Dieback, Leaning
497	Sugar Maple	<i>Acer saccharum</i>	62	Good	Good Overall Health Condition
498	Sugar Maple	<i>Acer saccharum</i>	>100	Good	Good Overall Health Condition

Table 2: Tree Grouping Inventory and Assessment Table

Tree Grouping ID	Species	Scientific Name	DBH (cm)	Health Condition	Notes
Grouping 1	Trembling Aspen	<i>Populus tremuloides</i>	10	Good	Grouping of 10 Trembling Aspen
Grouping 2	White Ash	<i>Fraxinus americana</i>	15 to 30	Poor	Grouping of 10 White Ash
Grouping 3	Sugar Maple	<i>Acer saccharum</i>	20 to <100	Good	Grouping of Approx. 25 Sugar Maple
Grouping 4	American Basswood	<i>Tilia americana</i>	15 to 50	Fair - Good	Grouping of 10 American Basswood
Grouping 5	Sugar Maple	<i>Acer saccharum</i>	20 to 30	Good	Grouping of 5 Sugar Maple
Grouping 6	Balsam Poplar	<i>Populus balsamifera</i>	15 to 30	Good	Grouping of 7 Balsam Poplar