



ARBORIST REPORT

DATE:

November 23, 2021

PREPARED FOR:

Eric Jaffe

SITE ADDRESS:

8455 SE 83rd St Mercer Island, WA 98040

PREPARED BY:

Kim Ettari, ISA Certified Arborist PN1301A

Laughing Trees Landscapes

5607 40th Ave NE Seattle, WA 98105

828-318-6088 / laughingtreeslandscapes@gmail.com

NARRATIVE

SCOPE OF WORK

You have asked me to complete an inventory of all trees/plants on the property and to assess whether any trees will be impacted by 1) the proposed addition to the north side of the house and 2) the rebuilding of the deck that surrounds the second story on the north and west sides of the house.

METHODOLOGY

The methods used for this assessment are as outlined in *Tree Risk Assessment* by Julian Dunster and as adopted by the International Society of Arboriculture (ISA). The end goal of most assessments is to provide the owner or manager of the tree(s) with factual information, enabling them to make decisions about the management of the tree(s). For this particular assessment, I used a Level II Assessment that includes inspection of the root collar, lower trunk, upper limbs and canopy of the trees as can be seen from the ground. Basic assessment does not include climbing the tree or excavation of soils to inspect root structure or condition.

I measured all of the trees for their diameter at breast height (DBH), an industry standard of measuring trees at 4.5' above grade. Trees that were multi-stemmed or branched below the standard 4.5' point of measurement were measured in some other way and noted as such in the findings and inventory notes. All plants that were inventoried were tagged with a round metal tag with a number corresponding to the notes.

FINDINGS AND OBSERVATIONS

The subject site is a residential property with an existing home in an established neighborhood. All of the trees and multi-stemmed large shrubs are established in the landscape.

1. Tree #340 - *Acer palmatum* 'Bloodgood' / Bloodgood Japanese Maple - 9" DBH - GOOD CONDITION / LOW RISK - This tree is 20' tall and has a 30' canopy spread. It has 4 co-dominant stems at 2' and has a few previous small branch failures. It has a balanced crown and shows strong vigor.
2. Tree #347 - *Pseudotsuga menziesii* / Douglas Fir - 43" DBH - GOOD CONDITION / LOW RISK - As per City of Mercer Island tree code this tree is classified as EXCEPTIONAL. It is approximately 80' tall with a 50' drip line in all directions. The trunk has a small corrected lean to the north but shows good vigor and a healthy balanced crown.
3. Tree #348 - *Tsuga heterophylla* / Western Hemlock - 18" DBH - POOR CONDITION / MODERATE RISK - This tree is approximately 50 tall with a 20' drip line. There is a slight uncorrected lean to the NE towards the

residence with splitting bark between 10' - 20' on the south side of the trunk. The tree shows poor vigor with chlorotic needles and growth only at the tips of the branches. There is a woolly adelgid infestation as well.

4. Tree #351 - *Pseudotsuga menziesii* / Douglas Fir - 38" DBH - GOOD CONDITION / LOW RISK - This EXCEPTIONAL tree is 100' tall with a slight corrected lean to the north. There is oozing sap on the west side of the trunk at 10'. There are a few small dead hanging branches and roots above ground at base.
5. Tree #352 - *Pseudotsuga menziesii* / Douglas Fir - 35" DBH - GOOD CONDITION / LOW RISK - This tree is also classified as EXCEPTIONAL and is 80' tall with a 50' canopy spread. The tree shows good vigor with a slight smaller canopy. There is a small section of dead bark on the base on the north side of the trunk. This tree is close to Tree # 353.
6. Tree #353 - *Pseudotsuga menziesii* / Douglas Fir - 32" DBH - GOOD CONDITION / LOW RISK - This EXCEPTIONAL tree is 80' tall with a canopy spread of 60' running east to west. There is a small section of dead bark at the base but the tree shows good vigor. Close to Tree #352.
7. Tree #354 - *Prunus* species / Flowering Cherry - 10" DBH - POOR CONDITION / HIGH RISK - This tree is approximately 25' tall with a 30' spread. There is evidence of decay in several previous pruning cuts with dead branches and previous branch failures. This tree shows poor vigor.
8. Tree #355 - *Pseudotsuga menziesii* / Douglas Fir - 38" DBH - FAIR CONDITION / LOW RISK - This EXCEPTIONAL tree is approximately 80' tall with a crown spread of 30' mostly north and south. It has sparse foliage on the lower branches and is crowded with Trees #356 & 357.
9. Tree #356 - *Tsuga heterophylla* / Western Hemlock - 16" DBH - POOR CONDITION / MODERATE RISK - This tree is approximately 60' tall with a small, unbalanced crown 20' to the north, south and west. The canopy is intertwined with Tree #357. There is a woolly adelgid infestation with slightly chlorotic needles, low vigor and poor inside growth.
10. Tree #357 - *Pseudotsuga menziesii* / Douglas Fir - 22" DBH - FAIR CONDITION / LOW RISK - This tree is approximately 70' tall with a canopy spread of 20'. The canopy is weighted to the north towards the residence and is intertwined with Tree #356 and shows poor vigor.
11. Tree #358 - *Thuja plicata* / Western Red Cedar - 26" DBH - GOOD CONDITION / LOW RISK - This tree is part of a row of trees (Tree #358 - 364) planted together. It is 70' tall with a 20 ' spread. Good vigor.
12. Tree #359 - *Thuja plicata* / Western Red Cedar - 17" DBH - GOOD CONDITION / LOW RISK - This tree is part of a row of trees (Tree #358 - 364) planted together. It is 70' tall with a 20 ' spread. Good vigor.

13. Tree #360 - Thuja plicata / Western Red Cedar - 17" DBH - GOOD CONDITION / LOW RISK - This tree is part of a row of trees (Tree #358 - 364) planted together. It is 70' tall with a 20 ' spread. Good vigor.
14. Tree #361 - Thuja plicata / Western Red Cedar - 15" DBH - GOOD CONDITION / LOW RISK - This tree is part of a row of trees (Tree #358 - 364) planted together. It is 70' tall with a 20 ' spread. Good vigor.
15. Tree #362 - Thuja plicata / Western Red Cedar - 17" DBH - GOOD CONDITION / LOW RISK - This tree is part of a row of trees (Tree #358 - 364) planted together. It is 70' tall with a 20 ' spread. Good vigor.
16. Tree #363 - Thuja plicata / Western Red Cedar - 25" DBH - GOOD CONDITION / LOW RISK - This tree is part of a row of trees (Tree #358 - 364) planted together. It is 70' tall with a 20 ' spread. There are many surface roots at the base. Good vigor.
17. Tree #364 - Thuja plicata / Western Red Cedar - 29" DBH - GOOD CONDITION / LOW RISK - This tree is part of a row of trees (Tree #358 - 364) planted together. It is 70' tall with a 20 ' spread. There are many surface roots at the base. Good vigor.
18. Tree #365 - Rhododendron species / Rhododendron - 15" DBH - FAIR CONDITION - This multi-stemmed plant is 15' tall with a 15' canopy spread. There is dense epicormic growth inside the canopy with poor vigor.
19. untagged - Thuja plicata / Western Red Cedar - 8" DBH - GOOD CONDITION

RECOMMENDATIONS

1. Tree #347 could potentially be impacted by the construction of the addition on the north side of the residence. I recommend digging a 25' long exploratory trench running northeast to southwest (see attached tree map) to see if any significant roots will be affected by construction traffic.
2. Tree #349 will be impacted by the construction of the new replacement deck on the north and west sides of the residence. I recommend it be removed.
3. Tree #350 will be impacted by the construction of the new replacement deck on the north and west sides of the residence. I recommend it be removed.
4. Tree #351 could potentially be impacted by the construction of new pilings for the replacement deck on the north and west sides of the residence. I recommend digging a 15' long exploratory trench running northeast to southwest (see attached tree map) to see if any significant roots will be affected by construction traffic.

LIMITATIONS

This report was based on the conditions of the trees and site at the time the report was written. Weather and site changes can alter the conditions at any time. Trees inherently pose a certain degree of hazard and risk from breakage, failure or other causes and conditions. Recommendations that are made by Laughing Trees Landscapes are intended to minimize or reduce hazardous conditions that may be associated with trees. However, there is and there can be no guarantee or certainty that efforts to correct unsafe conditions will prevent breakage or failure of the tree. Any recommendations made should reduce the risk of tree failure but they cannot eliminate such risk, especially in the event of a storm or any act of God. There can be no guarantee or certainty that all hazardous conditions will be detected.

Eric Jaffe Tree Inventory - 8455 SE 83rd Street Mercer Island, WA 98040

Tree #	Botanical Name	Common Name	DBH	Dripline	ICRZ	Condition / Notes	Action
340	Acer palmatum 'Bloodgood'	Bloodgood Japanese Maple	9"	30'	15'	GOOD: 20' tall, 4 co-dominant trunks at 2', previous small branch failures	RETAIN
347	Pseudotsuga menziesii	Douglas Fir	43" EXCEPTIONAL	50'	25'	GOOD: 80' tall, balanced crown, 5 degree corrected lean to N, small dead hangers, good vigor	RETAIN
348	Tsuga heterophylla	Western Hemlock	18"	20'	10'	POOR: 50' tall, poor vigor, chlorotic needles, woody adelgid infestation, growth only at tips of branches, slight uncorrected lean to NE towards residence, splitting bark between 10'-20' on S side of trunk	REMOVE - 2 replacement trees required
351	Pseudotsuga menziesii	Douglas Fir	38" EXCEPTIONAL	20'S/20'NW/ 10'E	10'	GOOD: 100' tall, good vigor, slight corrected lean to N, cozing sap on W side of trunk at 10', small dead hangers, roots above ground	RETAIN
352	Pseudotsuga menziesii	Douglas Fir	35" EXCEPTIONAL	50'	25'	GOOD: 80' tall, canopy over deck on E, good vigor, smaller canopy, small section of dead bark at base on N side of trunk, close to 353	RETAIN
353	Pseudotsuga menziesii	Douglas Fir	32" EXCEPTIONAL	30'E/30'W	15'	GOOD: 80' tall, small dead bark at base, good vigor	RETAIN
354	Prunus species	Flowering Cherry	10"	30'	15"	POOR: 25' tall, cavities with decay in old pruning cuts, dead inner branches, poor vigor	REMOVE - 2 replacement trees required
355	Pseudotsuga menziesii	Douglas Fir	38" EXCEPTIONAL	20'SW/15'N	10'	FAIR: 80' tall, intertwined with 356 & 357, sparse foliage on lower branches	RETAIN
356	Tsuga heterophylla	Western Hemlock	16"	20'W/20'S/ 20'N	10'	POOR: 60' tall, sparse canopy - intertwined with 357, woody adelgid infestation, poor inside growth, small dead hangers, slightly chlorotic needles, low vigor	RETAIN
357	Pseudotsuga menziesii	Douglas Fir	22"	20'N	10'	FAIR: 70' tall, intertwined with 356, canopy weighted to N towards residence, low vigor	RETAIN
358	Thuja plicata	Western Red Cedar	26"	20'	10'	GOOD: 70' tall, good vigor, in row with 358 - 364	REMOVE - 3 replacement trees required
359	Thuja plicata	Western Red Cedar	17"	20'	8'	GOOD: 70' tall, good vigor, in row with 358 - 364	REMOVE - 2 replacement trees required
360	Thuja plicata	Western Red Cedar	17"	20'	8'	GOOD: 70' tall, good vigor, in row with 358 - 364	REMOVE - 2 replacement trees required

Tree #	Botanical Name	Common Name	DBH	Dripine	ICRZ	Condition / Notes	Action
361	Thuja plicata	Western Red Cedar	15"	20'	8'	GOOD: 70' tall, good vigor, in row with 358 - 364	REMOVE - 2 replacement trees required
362	Thuja plicata	Western Red Cedar	17"	20'	8'	GOOD: 70' tall, good vigor, in row with 358 - 364	REMOVE - 2 replacement trees required
363	Thuja plicata	Western Red Cedar	25"	20'	8'	GOOD: 70' tall, good vigor, in row with 358 - 364, many surface roots	REMOVE - 3 replacement trees required
364	Thuja plicata	Western Red Cedar	29"	20'	8'	GOOD: 70' tall, good vigor, in row with 358 - 364, many surface roots	REMOVE - 3 replacement trees required
365	Rhododendron species	Rhododendron	15" **	25'	n/a	FAIR: 15' tall, dense epicoormic growth inside canopy, poor vigor, multi-stem	RETAIN
untagged	Thuja plicata	Western Red Cedar	8"			GOOD	RETAIN

Inventory revised on 8/10/2021 by Laughing Trees Landscapes - Kim Etari (ISA Certified Arborist PN1301A)

*DBH = diameter at breast height / 4.5' from base

**DBH for multi-stem = square root of sum of squared stem diameters

*Dripine = measured in radius or diameter as indicated

*ICRZ = interior critical root zone / measured in radius

Eric Jaffe Tree Map
8455 SE 83rd St
Mercer Island, WA 98040
*** tree locations approximated ***



