



# Greenforest Incorporated



## Consulting Arborist

TO: Mike Walsh  
 Terrene Ventures  
 2630 116th Ave NE, Suite 200  
 Bellevue, WA 98004

REFERENCE: Larkin Tree Health Report

SITE ADDRESS: 10201 134<sup>th</sup> Ave NE, Redmond WA 98033  
 TPN 1246700141

DATE: January 29, 2018

PREPARED BY: Favero Greenforest, ISA Certified Arborist # PN -0143A  
 ISA Tree Risk Assessment Qualified  
 ASCA Registered Consulting Arborist® #379

You contacted me on 9/9/17 and contracted my services as a consulting arborist. My assignment is to inventory, assess and report on the health of the regulated trees at the referenced site. I visited the site 10/26/17 and assessed the trees, which are the subject of this *tree health report*.

### Summary

<i>Total Significant Trees on Site</i>	<i>20</i>
<i>Total Landmark Trees on Site</i>	<i>1</i>
<i>Total Regulated Trees</i>	<i>21</i>
<i>Unhealthy Trees</i>	<i>2</i>
<i>Offsite Trees</i>	<i>28</i>

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This nearly 2.5-acre site has a slight southern aspect, and covered mostly in pasture grass. The regulated trees are predominantly native conifer species, with a few deciduous trees. Twenty-eight offsite trees are also included in an attached inventory. The subject trees include native, fruiting and ornamental species.

#### TREE INSPECTION METHOD

I visually inspected each tree from the ground. I performed a Level 1 risk assessment.<sup>1</sup> This is the standard assessment for populations of trees near specified targets, conducted in order to identify obvious defects or specified conditions such as a pre-development inventory. This is a limited visual assessment focuses on identifying trees with imminent and/or probable likelihood of failure, and/or other visible conditions that will affect tree retention.

I recorded tree species and size (DBH). I estimated the average dripline of each tree. I rated the condition of each tree, both health and structure. A tree's structure is distinct from its health. This inspection identifies what is visible with both.

High-risk trees can appear healthy in that they can have a dense, green canopy. This may occur when there is sufficient sapwood or adventitious roots present to maintain tree health, but inadequate strength for structural support.

Conversely, trees in poor health may or may not be structurally stable. For example, tree decline due to root disease is likely to cause the tree to be structurally unstable, while decline due to drought or insect attack may not.

One way that tree health and structure are linked is that healthy trees are more capable of compensating for structural defects. A healthy tree can develop adaptive growth that adds strength to parts weakened by decay, cracks, and wounds.

This report identifies unhealthy trees based on existing health conditions and tree structure, and specifies which trees are most suitable for preservation.<sup>2</sup> No invasive procedures were performed on any trees. The results of this inspection are based on what was visible at the time of the inspection.

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<sup>1</sup> Companion publication to the ANSI A300 Part 9: Tree Shrub and Other woody Plant Management – Standard Practices, Tree Risk Assessment. 2011. ISA.

<sup>2</sup> Companion publication to the ANSI A300 Part 5: Tree Shrub and Other woody Plant Maintenance – Standard Practices, Managing Trees During Construction. 2008. ISA.



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The subject trees were tagged and numbered with a 1" x 3" aluminum tag prior to my inspection. The attached tree inventory documents the condition of each regulated tree, and provides the following information on each tree.

**Onsite Tree Count** tallies onsite regulated trees. There are 21.

**Remove** identifies trees proposed to be removed because of proposed site improvements. There are 16.

**Retain** identifies trees to be retained. There are 5.

**Tree Category** indicates if tree is *Significant* (6" or greater DBH), *Landmark* (greater than 30" DBH) or *Unhealthy*.

**Tree number** as indicated on tag in field and shown on the attached site plan.

**DBH Stem** (trunk) diameter in inches 4.5 feet from grade. Multiple-trunked trees are listed as the average of all stems is used to assign each tree's category.

**Tree Species** Common name.

**Dripline** Average branch extension in feet as radius from the trunk.

**Health and Structure rating** '1' indicates good to excellent condition; no visible health-related problems or structural defects, '2' indicates fair condition; minor visible problems or defects that may require attention if the tree is retained, and '3' indicates poor condition; significant visible problems or defects: the tree is considered *unhealthy* and removal is recommended.

**Visible Defects** Obvious structural defects or diseases visible at time of inspection, including:

Asymmetric canopy– the tree has an asymmetric canopy from space and light competition from adjacent trees.

Branch dieback - Mature branches in canopy are dying/dead.

Decay – process of wood degradation by microorganisms resulting in weak and defective structure.

Decline – tree is in an obvious state of declining vigor/vitality.

Diseased – foliage and trunk/stems are diseased.

Dogleg in trunk - trunk with a bow or defective bend (90°) in trunk often half way or further up the trunk.

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- Double leader – the tree has multiple stem attachments, which may require maintenance or monitoring over time.
- Girdling – trunk is injured from cordage wrapped around trunk.
- Included bark – a bark inclusion at attachment of multiple leaders and is preventing a wood-to-wood attachment
- Multiple leaders - the tree has multiple stem attachments, which may lead to tree failure and require maintenance or monitoring over time.
- Suppressed – tree crowded by larger adjacent trees, with defective structure and/or low vigor. Retain tree only as a grove tree, not stand-alone.

Summarizing Compliance with Code.

The following table provides you with the format that is required for summarizing a proposal’s conformance with the City’s tree protection regulations. The table must appear in the Arborist Report and on the Tree Preservation Plan, both of which are part of the application. Please include the total number of trees that are 6” or greater and the number of unhealthy trees in the report.

Compliance Chart for 21 Healthy Significant Trees

Tree Type	Removed		Impacted		Retained		Total	
Landmark >30" DBH	Qty.	1	Qty.	0	Qty.	0	Total	1
	%	5%	%	0	%	0	Percent	5%
Significant 6-30" DBH	Qty.	15	Qty.	0	Qty.	5	Total	20
	%	71%	%	0	%	24%	Percent	95%
Totals	Qty.	16	Qty.	0	Qty.	5	Total	21
	%	76%	%	0	%	24%		100%

Unhealthy Trees On Site to be removed – 2

Offsite Trees to be protected - 26

The attached Tree Preservation Plan provides the location and numbering for each tree, illustrating each tree’s dripline, and illustrating 5’ from each tree’s dripline.

Limitations and Use of this Report

This tree report establishes, via the most practical means available, the existing conditions of the trees on the subject property. Ratings for health and structure, as well as any recommendations are valid only through the development and construction



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process. This report is based solely on what is readily visible and observable, without any invasive means.

There are several conditions that can affect a tree's condition that may be pre-existing and unable to be ascertained with a visual-only analysis. No attempt was made to determine the presence of hidden or concealed conditions which may contribute to the risk or failure potential of trees on the site. These conditions include root and stem (trunk) rot, internal cracks, structural defects or construction damage to roots, which may be hidden beneath the soil. Additionally, construction and post-construction circumstances can cause a relatively rapid deterioration of a tree's condition.

Attachments:

1. Assumptions
2. Certification of Performance
3. Significant Tree Inventory
4. Offsite Tree Inventory
5. Tree Preservation Plan



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Attachment No. 1 - Assumptions & Limiting Conditions

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- 1) A field examination of the site was made 10/26/17. My observations and conclusions are as of that date.
- 2) Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant/arborist can neither guarantee nor be responsible for the accuracy of information provided by others.
- 3) Unless stated other wise: 1) information contained in this report covers only those trees that were examined and reflects the condition of those trees at the time of inspection; and 2) the inspection is limited to visual examination of the subject trees without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied that problems or deficiencies of the subject tree may not arise in the future.
- 4) The consultant/appraiser shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made.
- 5) Loss or alteration of any part of this report invalidates the entire report.
- 6) Unless required by law otherwise, possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed, without the prior expressed written or verbal consent of the consultant/appraiser.
- 7) Construction activities can impact trees in unpredictable ways. All retained trees should be inspected at the completion of construction, and regularly thereafter as part of ongoing maintenance.
- 8) The consultant does not assume any liability for the subject tree and does not represent the transfer of such for any risks associated with the tree from the landowner to the consultant. **Risk management is solely the responsibility of the landowner.**



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Attachment No. 2- Certification of Performance

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I, Favero Greenforest, certify that:

- I have personally inspected the trees and the property referred to in this report and have stated my findings accurately.
- I have no current or prospective interest in the vegetation or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved.
- The analysis, opinion, and conclusions stated herein are my own and are based on current scientific procedures and facts.
- My analysis, opinion, and conclusions were developed and this report has been prepared according to commonly accepted arboricultural practices.
- No one provided significant professional assistance to me, except as indicated within the report.
- My compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client of any other party nor upon the results of the assessment, the attainment of stipulated results, or the occurrence of any subsequent events.

I further certify that I am a member in good standing of International Society of Arboriculture (ISA), and the ISA PNW Chapter, I am an ISA Certified Arborist (#PN-0143A) and am Tree Risk Assessment Qualified, and am a Registered Consulting Arborist® (#379) with American Society of Consulting Arborists. I have worked as an independent consulting arborist since 1989.

Signed:

  
GREENFOREST, Inc.

By Favero Greenforest, M. S.

**Favero**  
**Greenforest**

Date: January 29, 2018

Digitally signed by Favero Greenforest  
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## Attachment No. 3 – Significant Tree Inventory

Sig. Tree Count	Remove	Retain	Category	Tree No.	DBH (in.)	Species	Dripline	Health	Structure	Visible Defects
1	X		Significant	101	8"	Douglas-fir	10'	1	2	Asymmetric
2	X		Significant	102	8"	Douglas-fir	10'	1	2	Asymmetric
3	X		Significant	31515	13"	Mountain ash	15'	2	2	Old tree, roots at soil surface
4	X		Significant	31694	16"	Douglas-fir	14'	1	2	Asymmetric
5	X		Significant	31695	8"	Douglas-fir	11'	1	2	Asymmetric
6	X		Significant	31696	12"	Douglas-fir	12'	1	2	Asymmetric
7	X		Significant	31697	15"	Douglas-fir	14'	1	2	Asymmetric
8	X		Significant	31698	14"	Bigleaf maple	17'	1	2	Asymmetric
9	X		Significant	31699	13"	Douglas-fir	14'	1	2	Asymmetric
10	X		Landmark	31700	37"	Douglas-fir	21'	1	2	Girdling injury on trunk
11	X		Significant	31701	23"	Douglas-fir	18'	1	2	Asymmetric
12	X		Significant	31702	28"	Western red-cedar	14'	1	1	
			UNHEALTHY	31751	24"	Cherry, flowering	19'	3	2	Diseased, multiple leaders
13	X		Significant	31820	12"	Western red-cedar	11'	1	2	Double leader, asymmetric
14	X		Significant	31821	16"	Western red-cedar	11'	1	2	Double leader, asymmetric
15	X		Significant	31822	13"	Western red-cedar	11'	1	2	Double leader, asymmetric
16		X	Significant	33011	24"	Douglas-fir	23'	1	1	
			UNHEALTHY	33023	14"	Western hemlock	17'	3	3	Decline, dieback, canker
17	X		Significant	33024	19"	Douglas-fir	15'	1	2	Double leader, included bark
18		X	Significant	33025	28"	Douglas-fir	23'	1	1	
19		X	Significant	33026	7"	Douglas-fir	6'	1	2	Suppressed
20		X	Significant	33031	14"	Douglas-fir	19'	1	2	Asymmetric, dogleg
21		X	Significant	33032	18"	Douglas-fir	21'	1	2	Multiple leaders



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Attachment No. 4 – Offsite Tree Inventory

OFFSITE TREES				
No.	DBH	SPECIES	DL OVERHANGING PL	PL TO TREE TRUNK
A	30"	Douglas-fir	7'	3'
B	25"	Western red-cedar	10'	4'
C	15"	Western red-cedar	10'	4'
D	38"	Red oak	35'	4'
E	28"	Western red-cedar	14'	2'
F	16"	Douglas-fir	12'	3'
G	8"	Western red-cedar	5'	4'
H	8"	Western red-cedar	5'	4'
I	7"	Western red-cedar	5'	4'
J	8"	Western red-cedar	5'	4'
K	13"	Western hemlock	11'	3'
L	14"	Douglas-fir	17'	3'
M	12"	Douglas-fir	15'	3'
N	19"	Douglas-fir	20'	3'
O	24"	Western red-cedar	8'	7'
P	21"	Lombardi poplar	11'	1'
Q	6"	Pear, fruiting	14'	1'
R	8"	Purpleleaf plum	17'	1'
S	8"	Red maple	14'	2'
T	9"	Apple, fruiting	5'	3'
U	22"	Deodar cedar	16'	8'
V	10"	Apple, fruiting	11'	4'



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OFFSITE TREES				
No.	DBH	SPECIES	DL OVERHANGING PL	PL TO TREE TRUNK
<b>W</b>	18"	European birch (Tree is nearly dead)	10'	10'
<b>X</b>	8"	Juniper	12'	3'
<b>Y</b>	16"	Pine	7'	5'
<b>Z</b>	12"	Douglas-fir	12'	1'
<b>AA</b>	18"	Douglas-fir	11'	1'
<b>BB</b>	8"	Apple, fruiting	6'	1'



