Andrew Raines
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ISA TRAQ Certified
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PN-7684AU

At 7655 SE 40th St. Mercer Island, WA 98040 I did a full site assessment of all the trees over 6”. All trees were surveyed with a TRAQ form whether or not there was a target to inform of any foreseen issues and to assess the tree for any visible conditions to be noted. There were 14 trees assessed and they are numbered in conjunction with a survey map. Refer to TRAQ forms for additional details.

*Trees of concern would be those that have structural defects with targets within striking distance that would cause significant damage. Examples would be Blocking or landing in street, landing or powerlines, or landing on house. Refer to TRAQ forms for additional details.

Tree 6 (DOUGLAS FIR): Shows signs of root damage (flatness on base of tree in paved area), Has heavy overextended branches from over trimming, and tree has multiple tops from top breakage or being topped in previous trims. Tree canopy is overhanging the house and overall risk rating is high and recommended to be snagged or removed to mitigate hazard to none. Recommended to plant small trees in replacement because of limited space.

Tree 7 (DOUGLAS FIR): Trees base in poor condition (Burl and sap oozing), trees canopy is one sided towards powerlines (to be trimmed on utility maintenance), Tree is over trimmed and all limbs are heavy and overextended. Tree overall risk rating is high and recommended to be snagged or removed to mitigate hazard to none. Recommended to plant small trees in replacement because of limited space.

Tree 8 (DOUGLAS FIR): Tree has a questionable lean with little or no correction, Tree canopy is on powerline side only to be trimmed on utility maintenance. All limbs are overweight or over extended from over trimming. Tree risk rating is high and recommended to snag or remove. Small to medium size trees are recommended for replanting in the area.

Tree 9 (DOUGLAS FIR): Canopy has been raised too high and reduced to the point where all limbs are overweight and overextended and failure is occurring in the roadway. Previous failures have occurred and the area is high in car and pedestrian traffic as while I was on

site. Over risk rating on the tree is high and mitigation actions are recommended for snag or removal. Replants in this area should be small to medium sized trees.

Tree 14 (INVASIVE HAWTHORNE): Tree has been reduced multiple times and isn't cost effective for customers to maintain. Tree has decayed in base from previous lead reduction. Tree is has limited space to grow besides on house and over roof area creating a path for insects or larger critters. Tree is also wearing away paint from rubbing on the house. Tree is a moderate risk but could be high in circumstance of cost for maintaining trimming, painting, and pest control. Recommended mitigation actions would be removal.

*All other trees have little concern for target issues but that doesn't mean that there aren't any issues or have recommendations for mitigation.

Tree 1 (Laurel): This tree does have noticeable cavities along the trunk and large branches. Failure would cause negligible damage but recommended to raise canopy over fence for clearance and reduce top canopy to help from weight failure because of cavities.

Tree 2 (Douglas Fir): Tree has been trimmed and topped previously. Recommended to deadwood over fence area and inspect for structural defects in topped area.

Tree 3 (Douglas Fir): Tree has been trimmed and topped previously. Recommended to deadwood over fence area and inspect for structural defects in topped area.

Tree 4 (Grand Fir): No issues besides some dead limbs. Recommended deadwooding for health. keep an eye out for unusual growth because species are prone to disease.

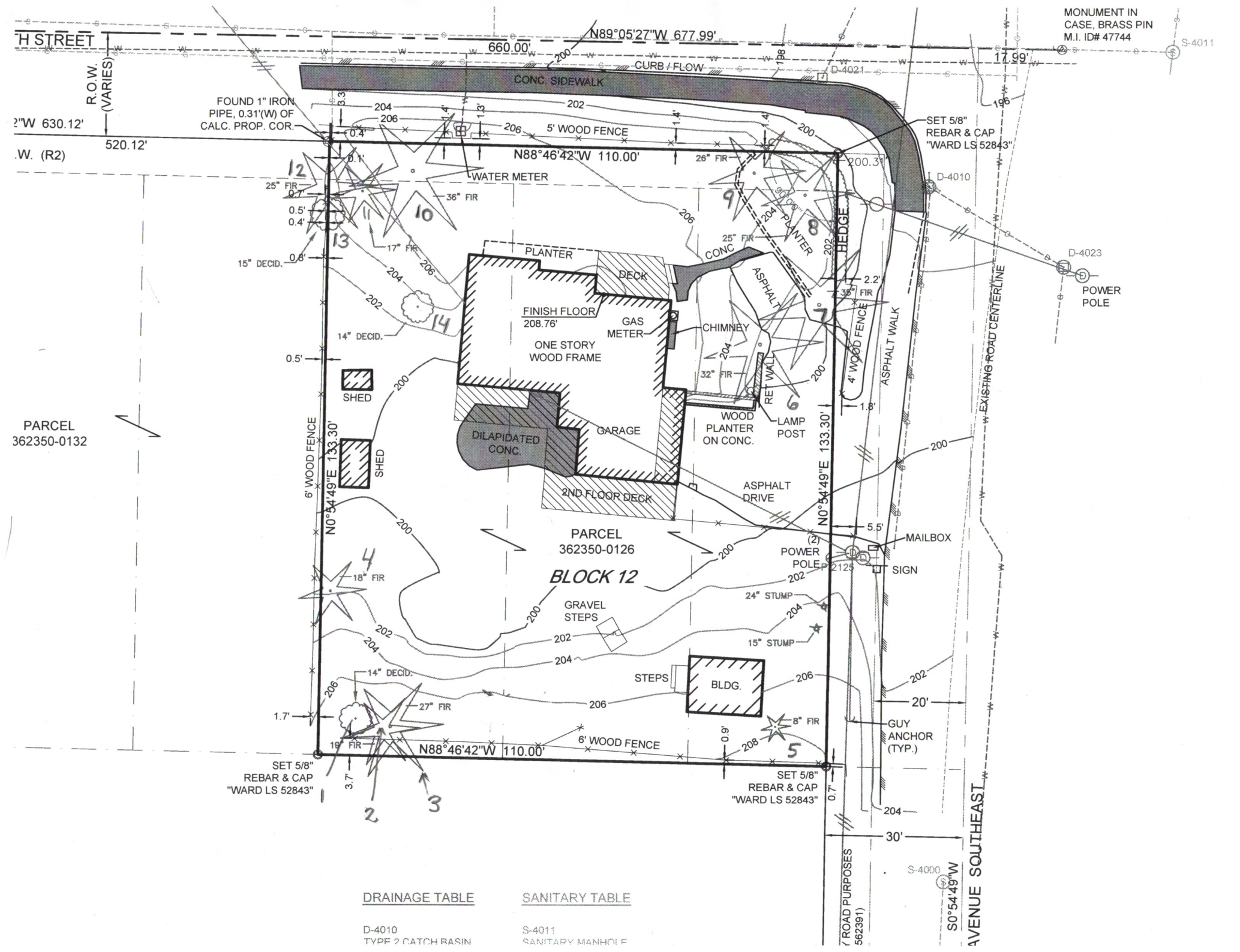
Tree 5 (Grand Fir): Tree has poor taper because it's surrounded by other trees. Recommended to remove ivy from base and keep an eye out for unusual growth because species are prone to disease.

Tree 10 (Douglas Fir): Tree looks to be in good condition. Recommended to deadwood and reduce any limbs overhanging the house.

Tree 11 (Douglas Fir): Tree growing unusually possible from being topped or phototropism because it's in the middle of a mini forest. Tree is also flattish on the house side and is a possible concern. Recommended to deadwood, thin, reduce on the house side, and reduce extra tops.

Tree 12 (Douglas Fir): Tree is in good condition and has full wind protection. Recommended to deadwood and further inspect because of visual limitations.

Tree 13 (Cherry): tree has large wound and cavity with decay low to ground in comparison to canopy. Failure is imminent in neighbors' backyard (no target in area besides old fence). Canopy seems healthy. Failure damages would be negligible and recommended to leave till failure or remove if owner desired.


H STREET
R.O.W. (VARIES)
660.00'
N89°05'27"W 677.99'
MONUMENT IN CASE, BRASS PIN M.I. ID# 47744
S-4011
17.99'
CURB / FLOW
CONC. SIDEWALK
D-4021
FOUND 1" IRON PIPE, 0.31'(W) OF CALC. PROP. COR.
2"W 630.12'
520.12'
.W. (R2)
5' WOOD FENCE
N88°46'42"W 110.00'
SET 5/8" REBAR & CAP "WARD LS 52843"
200.31'
D-4010
WATER METER
36" FIR
25" FIR
17" FIR
15" DECID.
14" DECID.
26" FIR
PLANTER
DECK
CONC
ASPHALT
HEDGE
D-4023
POWER POLE
FINISH FLOOR 208.76'
GAS METER
CHIMNEY
ONE STORY WOOD FRAME
32" FIR
RET WALL
4' WOOD FENCE
ASPHALT WALK
EXISTING ROAD CENTERLINE
SHED
WOOD PLANTER ON CONC.
LAMP POST
PARCEL 362350-0132
DILAPIDATED CONC.
GARAGE
6' WOOD FENCE
N0°54'49"E 133.30'
2ND FLOOR DECK
ASPHALT DRIVE
PARCEL 362350-0126
BLOCK 12
MAILBOX
(2) POWER POLE P 2125
SIGN
18" FIR
GRAVEL STEPS
24" STUMP
15" STUMP
STEPS
BLDG.
27" FIR
8" FIR
19" FIR
GUY ANCHOR (TYP.)
20'
30'
SET 5/8" REBAR & CAP "WARD LS 52843"
S0°54'49"W
S-4000
AVENUE SOUTHEAST
ROAD PURPOSES
562391)
DRAINAGE TABLE
D-4010
TYPE 2 CATCH BASIN
SANITARY TABLE
S-4011
SANITARY MANHOLE

ISA Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/2022 Time 12pm

Address/Tree location 7655 SE 140TH ST MERCER ISL, WA Tree no. 1 Sheet 1 of 1

Tree species LAUREL dbh 14" Height 30 Crown spread dia. 20

Assessor(s) ANDREW RAINES Tools used VISUAL Time frame 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1x Ht.	Target zone: Target within 1.5x Ht.	Occupancy rate (1 – rare, 2 – occasional, 3 – frequent, 4 – constant)	Practical to move target?	Restriction practical?
1	FENCE	NONE	X	X	X	4	N	N
2								
3								
4								

Site Factors

History of failures _____ **Topography** Flat ☐ Slope ☒ 20 % **Aspect** _____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe _____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☒ Pavement over roots ☐ _____% Describe DRY & HARD

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe _____

Tree Health and Species Profile

Vigor Low ☐ Normal ☒ High ☐ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 100 % Chlorotic _____% Necrotic _____%

Pests/Biotic _____ **Abiotic** _____

Species failure profile Branches ☐ Trunk ☐ Roots ☐ Describe _____

Load Factors

Wind exposure Protected ☒ Partial ☐ Full ☐ Wind funneling ☐ _____ **Relative crown size** Small ☒ Medium ☐ Large ☐

Crown density Sparse ☐ Normal ☒ Dense ☐ **Interior branches** Few ☐ Normal ☒ Dense ☐ **Vines/Mistletoe/Moss** ☐ _____

Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☐ LCR 100 %

Dead twigs/branches ☐ _____% overall Max. dia. _____

Broken/Hangers Number _____ Max. dia. _____

Over-extended branches ☐

Pruning history

Crown cleaned ☐ Thinned ☐ Raised ☐

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other _____

_____ Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Cracks ☐ _____ Lightning damage ☐

Codominant ☒ @ 8FT Included bark ☐

Weak attachments ☐ _____ Cavity/Nest hole 50 % circ.

Previous branch failures ☐ _____ Similar branches present ☐

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ _____

Response growth _____

Condition(s) of concern LEAD HAS CAVITY

Part Size 10' Fall Distance 5 FT

Load on defect N/A ☐ Minor ☐ Moderate ☒ Significant ☐

Likelihood of failure Improbable ☐ Possible ☒ Probable ☐ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☒

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole 3 % circ. Depth _____ Poor taper ☐

Lean _____° Corrected? _____

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth _____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ _____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____

Root plate lifting ☐ Soil weakness ☐

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Risk Categorization

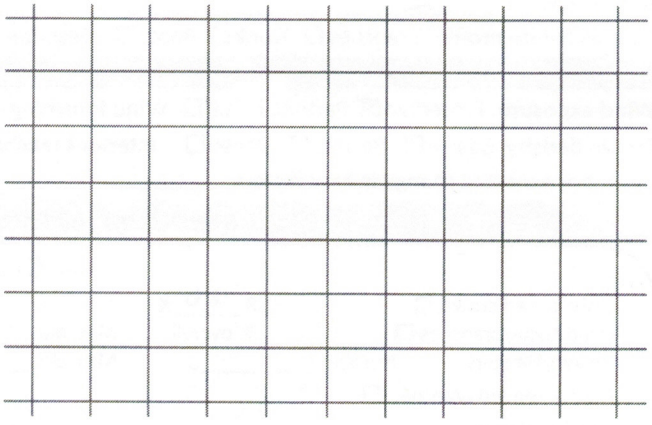
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
FENCE	TOP LEFTLEAD	CAVITY TOP FAIL		X			X			X		X			X				LOW

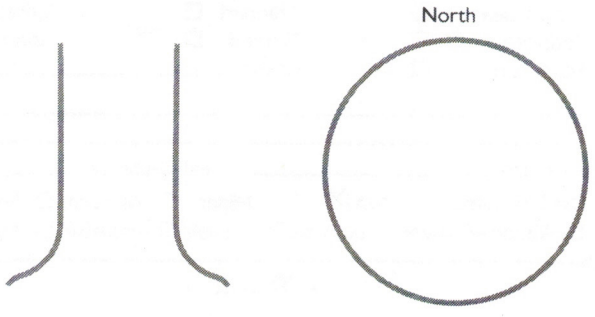
Matrix 1. Likelihood matrix.

Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low





Notes, explanations, descriptions

TREE IS OF NO CONCERN AS HAZARD

Mitigation options

1. RAISE CANOPY OVER FENCE AND REDUCE TOP — **Residual risk** NONE
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☒ Moderate ☐ High ☐ Extreme ☐

Overall residual risk None ☒ Low ☐ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** NONE

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☒ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/22 Time 12:15PM

Address/Tree location 7635 SE 140TH ST MERCER ISLAND WA Tree no. 2 Sheet 1 of 1

Tree species DOUGLAS FIR dbh 19" Height 65' Crown spread dia. 35

Assessor(s) ANDREW RAINES Tools used VISUAL **Time frame** 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1x Ht.	Target zone: Target within 1.5x Ht.	Occupancy rate (1–rare 2–occasional 3–frequent 4–constant)	Practical to move target?	Restriction practical?
1	FENCE	NO	X	X	X	4	N	N
2	HOUSE	NO			X	4	N	N
3								
4								

Site Factors

History of failures LIMB **Topography** Flat ☐ Slope ☒ 25 % **Aspect** ____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe ____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☒ Pavement over roots ☐ ____% Describe DRY & HARD

Prevailing wind direction SW **Common weather** Strong winds ☐ Ice ☐ Snow ☐ Heavy rain ☐ Describe ____

Tree Health and Species Profile

Vigor Low ☒ Normal ☐ High ☐ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 95 % Chlorotic ____% Necrotic 5 %

Pests/Biotic ____ **Abiotic** ____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe HEAVY BRANCH FAILURE

Load Factors

Wind exposure Protected ☐ Partial ☒ Full ☐ Wind funneling ☐ ____ **Relative crown size** Small ☐ Medium ☐ Large ☒

Crown density Sparse ☒ Normal ☐ Dense ☐ **Interior branches** Few ☒ Normal ☐ Dense ☐ **Vines/Mistletoe/Moss** ☐ ____

Recent or expected change in load factors ____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☒ LCR 60 %

Dead twigs/branches ☒ 3 % overall Max. dia. 3-4"

Broken/Hangers Number ____ Max. dia. ____

Over-extended branches ☒

Pruning history

Crown cleaned ☒ Thinned ☒ Raised ☒

Reduced ☐ Topped ☒ Lion-tailed ☐

Flush cuts ☐ Other ____

Condition(s) of concern TREES WERE TOPPED 20-30 YEARS AGO

Part Size ____ Fall Distance ____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Cracks ☐ ____ Lightning damage ☐

Codominant ☒ TOPPED (3 TOPS NOW) Included bark ☐

Weak attachments ☐ ____ Cavity/Nest hole ____% circ.

Previous branch failures ☐ ____ Similar branches present ☐

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ ____

Response growth ____

Part Size 16" Fall Distance 50-60 FT

Load on defect N/A ☐ Minor ☐ Moderate ☒ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole ____% circ. Depth ____ Poor taper ☐

Lean 87 ° Corrected? NO

Response growth ____

Condition(s) of concern ____

Part Size ____ Fall Distance ____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth ____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ ____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk ____

Root plate lifting ☐ Soil weakness ☐

Response growth ____

Condition(s) of concern ____

Part Size ____ Fall Distance ____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Risk Categorization

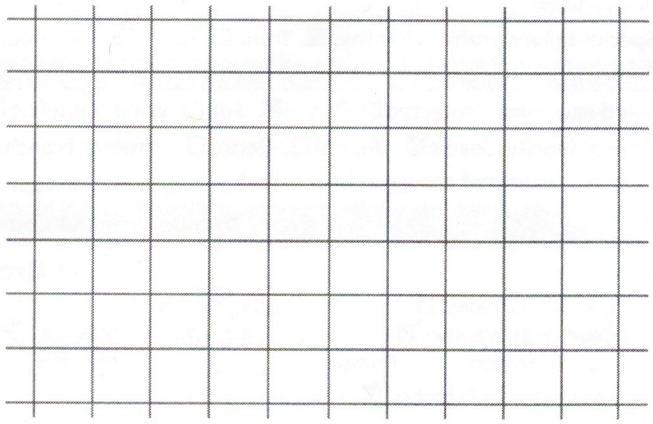
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
FENCE	TOPS OR BRANCH	STRUCTURAL WEAKNESS HEAVY LOAD FAILURE		X						X		X			X				LOW
HOUSE				X			X				X							X	LOW

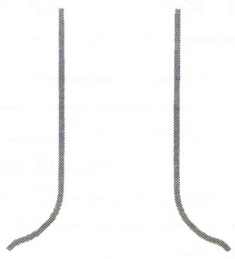
Matrix 1. Likelihood matrix.

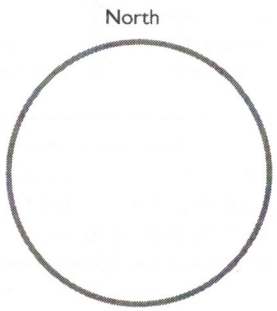
Likelihood of Failure	Likelihood of Impact: Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure: Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low







Notes, explanations, descriptions

Mitigation options

1. DEADWOOD AND INSPECT ON CLIMB FOR STRUCTURAL DEFECTS — **Residual risk** LOW
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☒ Moderate ☐ High ☐ Extreme ☐

Overall residual risk None ☐ Low ☒ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** 2 YEARS

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☐ None ☒ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/2/2022 Time 12:30 PM

Address/Tree location 7655 SE 140TH ST MERCER ISL WA Tree no. 3 Sheet 1 of 1

Tree species DOUGLAS FIR dbh 27" Height 65' Crown spread dia. 35

Assessor(s) ANDREW RAINES Tools used VISUAL Time frame 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1 x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1 – rare, 2 – occasional, 3 – frequent, 4 – constant)	Practical to move target?	Restriction practical?
1	FENCE	NO	X	X	X	4	N	N
2	HOUSE	NO			X	4	N	N
3								
4								

Site Factors

History of failures LIMB **Topography** Flat ☐ Slope ☒ 25 % **Aspect** ____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe ____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☒ Pavement over roots ☐ ____% Describe DRY & HARD

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe ____

Tree Health and Species Profile

Vigor Low ☐ Normal ☒ High ☐ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 95 % Chlorotic 1 % Necrotic 9 %

Pests/Biotic ____ **Abiotic** ____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe HEAVY BRANCH FAILURE

Load Factors

Wind exposure Protected ☐ Partial ☒ Full ☐ Wind funneling ☐ ____ **Relative crown size** Small ☐ Medium ☐ Large ☒

Crown density Sparse ☒ Normal ☐ Dense ☐ **Interior branches** Few ☒ Normal ☐ Dense ☐ **Vines/Mistletoe/Moss** ☐ ____

Recent or expected change in load factors ____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☒ LCR 75 %

Dead twigs/branches ☐ ____% overall Max. dia. ____

Broken/Hangers Number ____ Max. dia. ____

Over-extended branches ☒

Pruning history

Crown cleaned ☒ Thinned ☒ Raised ☐

Reduced ☐ Topped ☒ Lion-tailed ☐

Flush cuts ☐ Other ____

Cracks ☐ ____ Lightning damage ☐

Codominant ☒ 3+ TOPS Included bark ☐

Weak attachments ☐ ____ Cavity/Nest hole ____% circ.

Previous branch failures ☒ 6" Similar branches present ☒

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ ____

Response growth ____

Condition(s) of concern TOPPED 20-30 YEARS AGO

HEAVY BRANCHES

Part Size 5-9" Fall Distance 50-60 FT

Load on defect N/A ☐ Minor ☐ Moderate ☒ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

Part Size 14-20" Fall Distance 50-60 FT

Load on defect N/A ☐ Minor ☐ Moderate ☒ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole ____ % circ. Depth ____ Poor taper ☐

Lean 88 ° Corrected? NO

Response growth ____

Condition(s) of concern ____

Part Size ____ Fall Distance ____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth ____ Stem girdling ☐

Dead ☒ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ ____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk ____

Root plate lifting ☐ Soil weakness ☐

Response growth ____

Condition(s) of concern DECAYED STUMPS @ BASE

Part Size WHOLE TREE Fall Distance WHOLE TREE

Load on defect N/A ☐ Minor ☐ Moderate ☒ Significant ☐

Likelihood of failure Improbable ☒ Possible ☐ Probable ☐ Imminent ☐

Risk Categorization

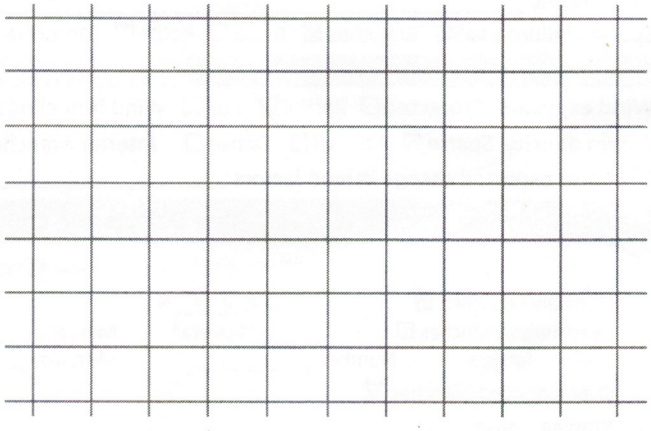
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
FENCE	TOPS	STRUCTURAL DEFECTS		X						X		X			X				LOW
HOUSE				X			X				X							X	LOW
FENCE	ROOT AREA	OLD DECAYED STUMPS IN AREA		X					X		X				X				LOW
HOUSE				X					X		X							X	LOW

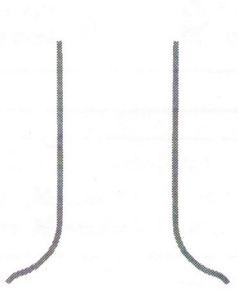
Matrix 1. Likelihood matrix.

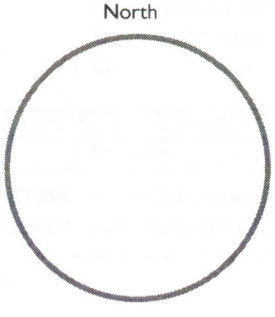
Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low







Notes, explanations, descriptions

Mitigation options

1. DEADWOOD TREE AND INSPECT FOR STRUCTURAL DEFECTS — **Residual risk** LOW
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☒ Moderate ☐ High ☐ Extreme ☐

Overall residual risk None ☐ Low ☒ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** 2 YEARS

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☑ None ☒ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

ISA Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 4/21/2022 Time 11:45

Address/Tree location 7055 SE 40TH ST. MERCER ISLAND, WA Tree no. 4 Sheet 1 of 1

Tree species GRAND FIR dbh 18 Height 70 Crown spread dia. 30 FT

Assessor(s) ANDREW RAINES Tools used VISUAL **Time frame**

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1 x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1 – rare, 2 – occasional, 3 – frequent, 4 – constant)	Practical to move target?	Restriction practical?
1	HOUSE	NONE		X	X	4	N	N
2								
3								
4								

Site Factors

History of failures _____ **Topography** Flat ☐ Slope ☒ 10 % **Aspect** _____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe _____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ _____% Describe _____

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe _____

Tree Health and Species Profile

Vigor Low ☒ Normal ☐ High ☐ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 50 % Chlorotic _____% Necrotic 50 %

Pests/Biotic _____ **Abiotic** _____

Species failure profile Branches ☐ Trunk ☐ Roots ☐ Describe DISEASE

Load Factors

Wind exposure Protected ☐ Partial ☒ Full ☐ Wind funneling ☐ _____ **Relative crown size** Small ☐ Medium ☐ Large ☐

Crown density Sparse ☒ Normal ☐ Dense ☐ **Interior branches** Few ☒ Normal ☐ Dense ☐ **Vines/Mistletoe/Moss** ☒ IVY

Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☐ LCR 50 %

Dead twigs/branches ☒ 50 % overall Max. dia. 3"

Broken/Hangers Number _____ Max. dia. _____

Over-extended branches ☐

Pruning history

Crown cleaned ☐ Thinned ☐ Raised ☐

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Cracks ☐ _____ Lightning damage ☐

Codominant ☐ _____ Included bark ☐

Weak attachments ☐ _____ Cavity/Nest hole ____% circ.

Previous branch failures ☐ _____ Similar branches present ☐

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ _____

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole _____ % circ. Depth _____ Poor taper ☐

Lean _____° Corrected? _____

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth _____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ _____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____

Root plate lifting ☐ Soil weakness ☐

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Risk Categorization

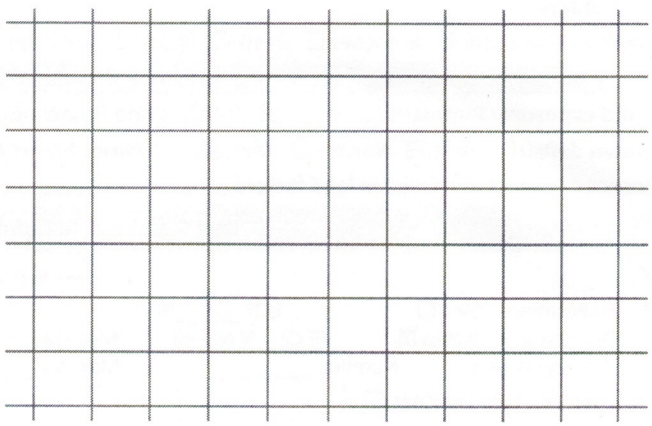
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)

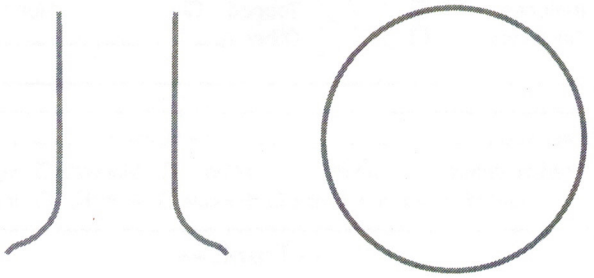
Matrix 1. Likelihood matrix.

Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low





Notes, explanations, descriptions

NO ISSUES BESIDES DEADWOOD AND IVY

Mitigation options

1. DEADWOOD AND REMOVE IVY — **Residual risk** NONE
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☐ Moderate ☐ High ☐ Extreme ☐

Overall residual risk None ☒ Low ☐ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** _____

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☑ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

ISA Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/2022 Time 12:50 PM

Address/Tree location 7655 SE 140TH ST MERCER ISL WA Tree no. 5 Sheet 1 of 1

Tree species GRAND FIR dbh 8" Height 45" Crown spread dia. 20

Assessor(s) ANDREW RAINES Tools used VISUAL **Time frame** 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1 x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1 – rare, 2 – occasional, 3 – frequent, 4 – constant)	Practical to move target?	Restriction practical?
1	POWERLINES	YES		X	X	4	N	N
2								
3								
4								

Site Factors

History of failures _____ **Topography** Flat ☐ Slope ☒ 20 % **Aspect** _____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe _____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ _____% Describe _____

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe _____

Tree Health and Species Profile

Vigor Low ☐ Normal ☒ High ☐ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 90 % Chlorotic _____% Necrotic 10 %

Pests/Biotic _____ **Abiotic** _____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe DISEASE

Load Factors

Wind exposure Protected ☒ Partial ☐ Full ☐ Wind funneling ☐ _____ **Relative crown size** Small ☒ Medium ☐ Large ☐

Crown density Sparse ☐ Normal ☒ Dense ☐ **Interior branches** Few ☐ Normal ☒ Dense ☐ **Vines/Mistletoe/Moss** ☒ IVY

Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☒ LCR 70 %

Dead twigs/branches ☒ 30 % overall Max. dia. 1"

Broken/Hangers Number _____ Max. dia. _____

Over-extended branches ☐

Pruning history

Crown cleaned ☐ Thinned ☐ Raised ☐

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other _____

Cracks ☐ _____ Lightning damage ☐

Codominant ☐ _____ Included bark ☐

Weak attachments ☐ _____ Cavity/Nest hole ____% circ.

Previous branch failures ☐ _____ Similar branches present ☐

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ _____

Response growth _____

_____ Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole ____% circ. Depth _____ Poor taper ☒

Lean ____° Corrected? _____

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☐ Minor ☒ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☒ Possible ☐ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth _____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ ____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____

Root plate lifting ☐ Soil weakness ☐

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Risk Categorization

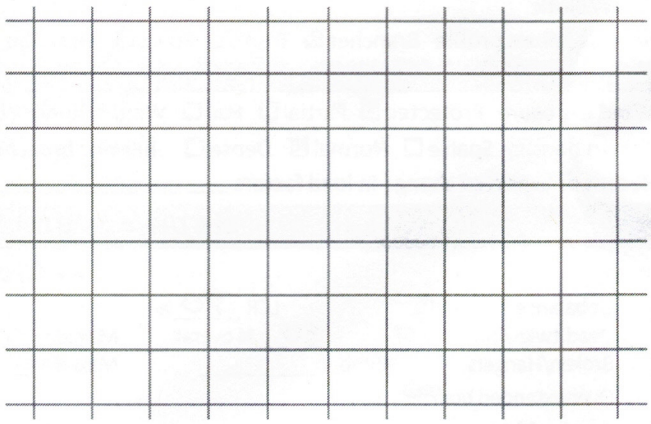
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Failure: Possible	Failure: Probable	Failure: Imminent	Impact: Very low	Impact: Low	Impact: Medium	Impact: High	Failure & Impact (from Matrix 1): Unlikely	Somewhat	Likely	Very likely	Consequences: Negligible	Minor	Significant	Severe	Risk rating (from Matrix 2)
POWERLINES	TOP	POOR TAPER	X				X				X				X				LOW

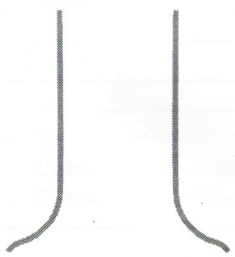
Matrix 1. Likelihood matrix.

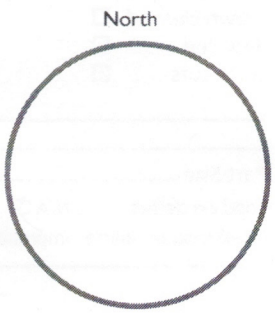
Likelihood of Failure	Likelihood of Impact: Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure: Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low







Notes, explanations, descriptions

SPECIES PRONE TO DISEASE

Mitigation options REMOVE IVY

1. KEEP AN EYE OUT FOR DIEBACK AND UNUSUAL GROWTHS — **Residual risk** LOW
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☒ Moderate ☐ High ☐ Extreme ☐

Overall residual risk None ☐ Low ☒ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** 2 YEARS

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☐ None ☒ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

ISA Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/22 Time 9:46AM

Address/Tree location 7655 SE 40TH ST MERCER ISL, WA Tree no. 6 Sheet 1 of 1

Tree species DOUGLAS FIR dbh 32" Height 70FT Crown spread dia. 40FT

Assessor(s) ANDREW RAINES Tools used VISUAL **Time frame**

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1–rare 2–occasional 3–frequent 4–constant)	Practical to move target?	Restriction practical?
1	HOUSE	NONE	X	X	X	4	N	N
2	78TH AVE SE	NONE		X	X	4	N	N
3	POWERLINES	NONE		X	X	4	N	N
4	CARS	NONE	X	X	X	3	Y	Y

Site Factors

History of failures BROKEN BRANCHES ON HOUSE **Topography** Flat ☐ Slope ☒ 20 % **Aspect** ____

Site changes None ☐ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe ____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☒ Pavement over roots ☒ 60 % Describe DRIVEWAY

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe ____

Tree Health and Species Profile

Vigor Low ☐ Normal ☐ High ☒ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 95 % Chlorotic ____ % Necrotic 5 %

Pests/Biotic ____ **Abiotic** ____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe HEAVY BRANCH FAILURE

Load Factors

Wind exposure Protected ☐ Partial ☒ Full ☐ Wind funneling ☐ ____ **Relative crown size** Small ☐ Medium ☐ Large ☒

Crown density Sparse ☐ Normal ☐ Dense ☒ **Interior branches** Few ☐ Normal ☐ Dense ☒ **Vines/Mistletoe/Moss** ☐ ____

Recent or expected change in load factors ____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☒ LCR 25 %

Dead twigs/branches ☒ 3 % overall Max. dia. 2-3"

Broken/Hangers Number ____ Max. dia. ____

Over-extended branches ☒

Pruning history

Crown cleaned ☐ Thinned ☐ Raised ☒

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other ____

RAISE EXSESIVELY, ALL LIMBS ARE OVEREXTENDED AND HEAVY

Condition(s) of concern BRANCH FAILURE PUNCTURING ROOF OF HOUSE OR SMASHING CARS

Part Size 6-8" Fall Distance 50-60FT

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

Cracks ☐ ____ Lightning damage ☐

Codominant ☒ TOP IS A BRANCHES Included bark ☐

Weak attachments ☐ ____ Cavity/Nest hole ____ % circ.

Previous branch failures ☒ 4-6" Similar branches present ☒

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ ____

Response growth ____

Part Size 4-6 INCH Fall Distance 60FT

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☒

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole ____ % circ. Depth ____ Poor taper ☒

Lean 88 ° Corrected? NO

Response growth ____

Condition(s) of concern LEAN TOWARDS HOUSE

Part Size ____ Fall Distance ____

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☒ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth ____ Stem girdling ☒

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☒ Cavity ☐ ____ % circ.

Cracks ☐ Cut/Damaged roots ☒ Distance from trunk BASE

Root plate lifting ☐ Soil weakness ☐

Response growth NONE

Condition(s) of concern FLAT SIDES OF BASE/POOR TAPER

Part Size WHOLE TREE Fall Distance WHOLE TREE

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

Risk Categorization

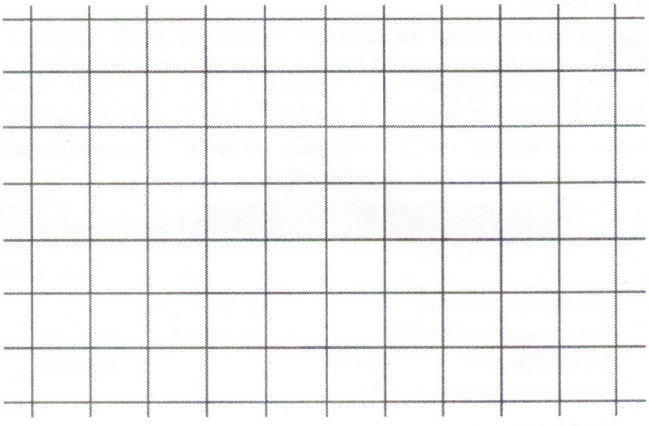
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
HOUSE	BRANCHES	OVERWEIGHTED EXTENDED FAILURE			X					X			X				X		HIGH
CARS					X					X			X				X		HIGH
HOUSE	ROOT & BASE	PAVED OVER ROOT WITH GIRDLING			X					X			X					X	HIGH
STREET					X				X			X						X	MOD
POWERLINES					X				X			X						X	MOD
CAR	" "	FULL TREE FAIL "			X				X			X						X	MOD

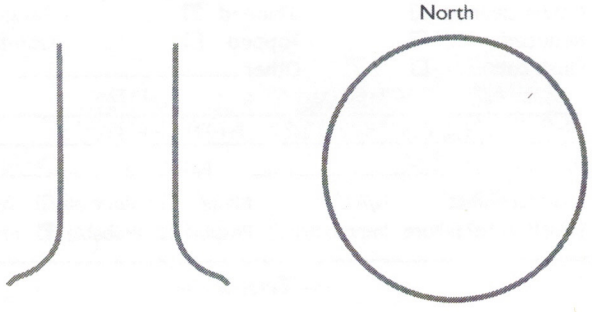
Matrix 1. Likelihood matrix.

Likelihood of Failure	Likelihood of Impact: Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure: Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low





Notes, explanations, descriptions

BASE OF TREE SHOWS SIGNS OF ROOT DAMAGE/ ISSUES (FLAT SIDES OF TREE BAS). HEAVY OVEREXTENDED LIMBS AND CO-DOMINANT TOPS ARE PRONE TO FAILURE

Mitigation options

1. SNAG OR REMOVAL WITH REPLANTS OF SMALL TREES (LIMITED SPACE) **Residual risk** NONE
2. _____ **Residual risk** _____
3. _____ **Residual risk** _____
4. _____ **Residual risk** _____

Overall tree risk rating Low ☐ Moderate ☐ High ☒ Extreme ☐

Overall residual risk None ☒ Low ☐ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** NONE

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☒ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

ISA Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/2022 Time 9:15 AM

Address/Tree location 7655 SE 40TH ST MERCER ISL, WA Tree no. 7 Sheet 1 of 1

Tree species DOUGLAS FIR dbh 36" Height 60 FT Crown spread dia. 50 FT

Assessor(s) ANDREW RAINES Tools used VISUAL **Time frame** 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1–rare 2–occasional 3–frequent 4–constant)	Practical to move target?	Restriction practical?
1	HOUSE	SOME		X	X	4	N	N
2	78TH AVE SE	NO	X	X	X	4	N	N
3	POWERLINES	NO	X	X	X	4	N	N
4								

Site Factors

History of failures LIMBS **Topography** Flat ☐ Slope ☒ 20-35 % **Aspect** ____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe ____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☒ Pavement over roots ☒ 50 % Describe DRIVEWAY

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe ____

Tree Health and Species Profile

Vigor Low ☐ Normal ☐ High ☒ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 93 % Chlorotic ____ % Necrotic 7 %

Pests/Biotic ____ **Abiotic** ____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe HEAVY BRANCH FAILURE

Load Factors

Wind exposure Protected ☐ Partial ☒ Full ☐ Wind funneling ☐ ____ **Relative crown size** Small ☐ Medium ☐ Large ☒

Crown density Sparse ☐ Normal ☐ Dense ☒ **Interior branches** Few ☐ Normal ☒ Dense ☐ **Vines/Mistletoe/Moss** ☐ ____

Recent or expected change in load factors ____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☒ LCR 40 %

Dead twigs/branches ☒ 4 % overall Max. dia. 3-4"

Broken/Hangers Number ____ Max. dia. ____

Over-extended branches ☒

Pruning history

Crown cleaned ☐ Thinned ☐ Raised ☒

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other POWERLINE SIDE TRIM

ONLY HEAVY LIMBS ON TREE

DEAD IN TOP AND BRANCHES

Part Size 6-8" Fall Distance 50-60 FT

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

Cracks ☐ ____ Lightning damage ☐

Codominant ☒ TOP WITH 3+ LEADS Included bark ☐

Weak attachments ☐ ____ Cavity/Nest hole ____ % circ.

Previous branch failures ☒ 3-4" Similar branches present ☒

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ ____

Response growth ____

Condition(s) of concern ____

Part Size 8-10" TOP Fall Distance 60 FT

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☒ Sap ooze ☒

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole ____ % circ. Depth ____ Poor taper ☐

Lean 88 ° Corrected? YES

~~Response growth~~ BURL @ BASE W/ EXCESSIVE SAP OOZE

Condition(s) of concern AND SAP OOZ FROM TOP DOWN

Part Size WHOLE TREE Fall Distance WHOLE TREE

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth ____ Stem girdling ☐

Dead ☒ Decay ☒ Conks/Mushrooms ☐

Ooze ☒ Cavity ☐ ____ % circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk ____

Root plate lifting ☒ Soil weakness ☐

Response growth ENLARGED BASE

Condition(s) of concern POSSIBLE DECAY @ BASE/ ROOT AREA

Part Size WHOLE TREE Fall Distance WHOLE TREE

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

Risk Categorization

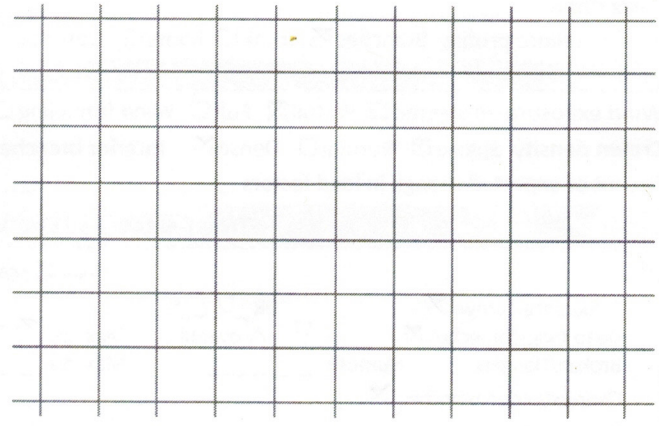
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
HOUSE	BRANCHES 3 TOPS	OVERWEIGTED FAILURE			X		X				X						X		LOW
STREET					X					X			X				X		HIGH
POWERLINES					X					X			X				X		HIGH
HOUSE	BASE 3 ROOT AREA	INTERNAL DECAY OR STRUCTURAL DEFECT		X	X		X				X							X	LOW
STREET					X					X			X					X	HIGH
POWERLINES					X					X			X					X	HIGH

Matrix 1. Likelihood matrix.

Likelihood of Failure	Likelihood of Impact: Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

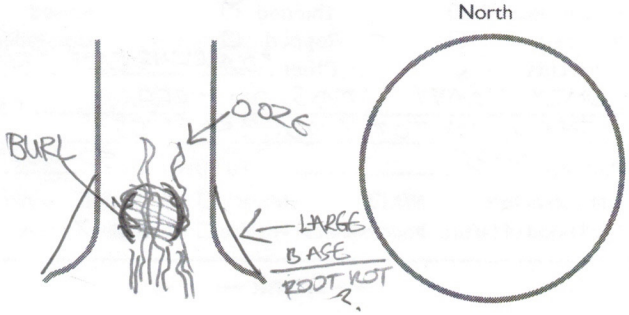
Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure: Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low



Notes, explanations, descriptions

QUESTIONABLE BASE OF TREE AND IN POOR CONDITIONS. ALSO, ALL LIMB WEIGHT IS OVEREXTENDED AND HEAVY.



Mitigation options

1. SNAG OR REMOVAL WITH REPLANTS OF SMALL TREES (LIMITED AREA) **Residual risk** NONE
2. _____ **Residual risk** _____
3. _____ **Residual risk** _____
4. _____ **Residual risk** _____

Overall tree risk rating Low ☐ Moderate ☐ High ☒ Extreme ☐

Overall residual risk None ☒ Low ☐ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** NONE

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☒ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

ISA Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/22 Time 8:46 AM

Address/Tree location 7655 SE 40TH ST MERCER ISL, WA Tree no. 8 Sheet 1 of 1

Tree species DOUGLAS FIR dbh 25" Height 70FT Crown spread dia. _____

Assessor(s) ANDREW RAINES Tools used VISUAL **Time frame** 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1 x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1–rare, 2–occasional, 3–frequent, 4–constant)	Practical to move target?	Restriction practical?
1	HOUSE	NONE		X	X	4	N	N
2	78TH AVE SE & SE 40TH ST	NONE	X	X	X	4	N	N
3	POWERLINES	NONE	X	X	X	4	N	N
4								

Site Factors

History of failures BROKEN TOP AND LIMBS **Topography** Flat ☐ Slope ☒ 10 % **Aspect** _____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe _____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ _____% Describe _____

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe _____

Tree Health and Species Profile

Vigor Low ☒ Normal ☐ High ☐ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 90 % Chlorotic _____% Necrotic 10 %

Pests/Biotic _____ **Abiotic** _____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe HEAVY BRANCHES FAIL

Load Factors

Wind exposure Protected ☐ Partial ☒ Full ☐ Wind funneling ☐ _____ **Relative crown size** Small ☐ Medium ☒ Large ☐

Crown density Sparse ☒ Normal ☐ Dense ☐ **Interior branches** Few ☐ Normal ☒ Dense ☐ **Vines/Mistletoe/Moss** ☐ _____

Recent or expected change in load factors POWERLINE TRIMS

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☒ LCR 35 %

Dead twigs/branches ☒ 10 % overall Max. dia. 2"

Broken/Hangers Number _____ Max. dia. _____

Over-extended branches ☒

Pruning history

Crown cleaned ☒ Thinned ☒ Raised ☒

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other POWERLINE SIDE TRIM

HEAVY LIMB WEIGHT ON ONE SIDE OF TREE — Condition(s) of concern MULTIPLE FAILED BRANCHES BECAUSE OF EXSESIVE LIMB WEIGHT

Part Size WHOLE Fall Distance WHOLE

Load on defect N/A ☐ Minor ☐ Moderate ☒ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

Cracks ☐ _____ Lightning damage ☐

Codominant ☒ SMALL CO-DOM TOP @ 60FT Included bark ☐

Weak attachments ☐ _____ Cavity/Nest hole ____% circ.

Previous branch failures ☒ 4"-6" Similar branches present ☒

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ _____

Response growth _____

Part Size 4"-6" Fall Distance 50-60FT

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☒

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole ____% circ. Depth _____ Poor taper ☐

Lean 80 ° Corrected? NO

Response growth NONE

Condition(s) of concern TREE LEAN QUESTIONABLE

Part Size WHOLE TREE Fall Distance WHOLE TREE

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth _____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ ____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____

Root plate lifting ☐ Soil weakness ☒

Response growth _____

Condition(s) of concern NEAR BANKMENT

Part Size WHOLE TREE Fall Distance WHOLE TREE

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

Risk Categorization

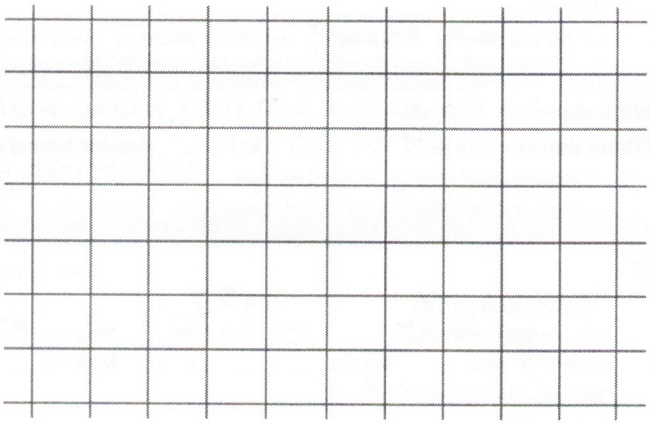
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
HOUSE	WHOLE TREE	LEAN AND SOIL CONDITION	X				X				X							X	LOW
STREET					X					X			X					X	HIGH
POWERLINES					X					X			X					X	HIGH
HOUSE	LARGE BRANCHES	OVERWEIGHTED BRANCHES	X				X				X						X		LOW
STREET					X					X			X				X		HIGH
POWERLINES					X					X			X				X		HIGH

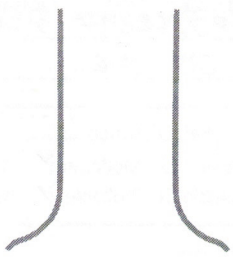
Matrix 1. Likelihood matrix.

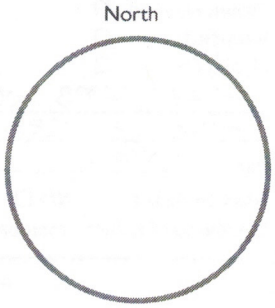
Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low







Notes, explanations, descriptions

TREE HAS A QUESTIONABLE LEAN AND CANOPY IS OVERWEIGHTED ON POWERLINE SIDE. ALSO, LIMBS ARE OVERWEIGHTED AND PRONE TO FAILURE.

Mitigation options

1. SNAG OR REMOVAL WITH REPLANTS OF MED. SIZED TREES — **Residual risk** NONE
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☐ Moderate ☐ High ☒ Extreme ☐

Overall residual risk None ☒ Low ☐ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** NONE

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☒ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

ISA Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/2022 Time 8:23 AM

Address/Tree location 7655 SE 40TH ST MERCER ISL, WA Tree no. 9 Sheet 1 of 1

Tree species DOUGLAS FIR dbh 26" Height 70FT Crown spread dia. 40FT

Assessor(s) ANDREW RAINES Tools used VISUAL **Time frame** 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1 x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1 – rare, 2 – occasional, 3 – frequent, 4 – constant)	Practical to move target?	Restriction practical?
1	HOUSE	NO		X	X	4	N	N
2	SE 40TH & 78TH AVE SE	NO	X	X	X	4	N	N
3	POWERLINES	NO	X	X	X	4	N	N
4								

Site Factors

History of failures BROKEN TOP AND BROKEN LIMBS **Topography** Flat ☒ Slope ☐ _____% **Aspect** _____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe _____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ _____% Describe _____

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe _____

Tree Health and Species Profile

Vigor Low ☐ Normal ☒ High ☐ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 95% Chlorotic _____% Necrotic 5 %

Pests/Biotic _____ **Abiotic** _____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe HEAVY BRANCHES FAIL

Load Factors

Wind exposure Protected ☐ Partial ☒ Full ☐ Wind funneling ☐ _____ **Relative crown size** Small ☐ Medium ☒ Large ☐

Crown density Sparse ☒ Normal ☐ Dense ☐ **Interior branches** Few ☐ Normal ☒ Dense ☐ **Vines/Mistletoe/Moss** ☐ _____

Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☒ LCR 25 %

Dead twigs/branches ☒ 3 % overall Max. dia. 1"

Broken/Hangers Number _____ Max. dia. _____

Over-extended branches ☒

Pruning history

Crown cleaned ☒ Thinned ☒ Raised ☒

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other POWERLINE SIDE TRIM OVERTRIMED AND LIMB WEIGHT IS HEAVY OVER ROADWAY

Condition(s) of concern LIMB BREAKAGE

Part Size 6" Fall Distance 60 FEET

Load on defect N/A ☐ Minor ☐ Moderate ☒ Significant ☐

Likelihood of failure Improbable ☐ Possible ☒ Probable ☐ Imminent ☐

Cracks ☐ _____ Lightning damage ☐

Codominant ☐ _____ Included bark ☐

Weak attachments ☐ _____ Cavity/Nest hole ____% circ.

Previous branch failures ☒ 2, 4" LIMBS Similar branches present ☒

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ _____

Response growth _____

Part Size 4-6" Fall Distance _____

Load on defect N/A ☐ Minor ☐ Moderate ☒ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole _____ % circ. Depth _____ Poor taper ☐

Lean _____° Corrected? _____

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth _____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ _____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____

Root plate lifting ☐ Soil weakness ☒

Response growth _____

Condition(s) of concern 4 FEET FROM GRADE

Part Size WHOLE TREE Fall Distance _____

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☒ Probable ☐ Imminent ☐

Risk Categorization

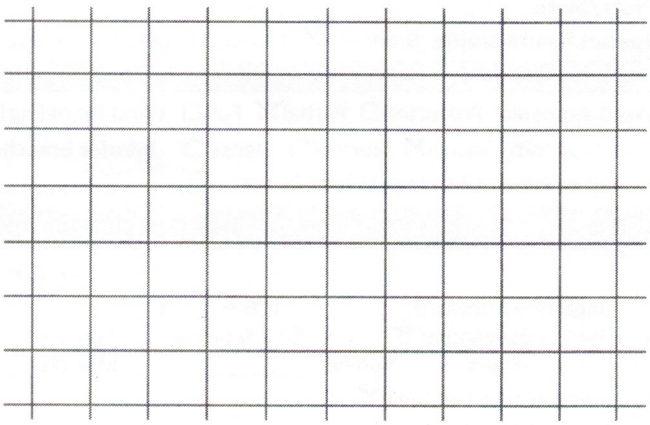
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
HOUSE	BRANCHES	OVERSIZED BRANCH FAILURE			X		X				X						X		LOW
STREET					X					X			X				X		HIGH
POWERLINES					X					X			X				X		HIGH

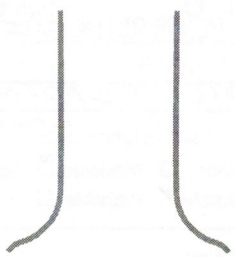
Matrix 1. Likelihood matrix.

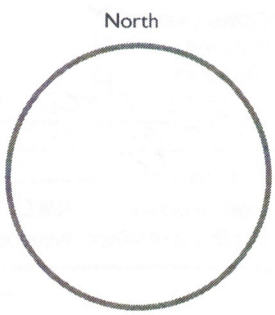
Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low







Notes, explanations, descriptions

CANOPY HAS BEEN REDUCED AND ALL BRANCHES ARE PRONE TO FAILURE BECAUSE THEY ARE OVERWEIGHTED. PREVIOUS FAILURES IN ROADWAY.

Mitigation options

1. SNAG OR REMOVAL W/ REPLANTS OF MEDIUM SIZED TREES — **Residual risk** NONE
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☐ Moderate ☐ High ☒ Extreme ☐

Overall residual risk None ☒ Low ☐ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** NONE

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☒ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

ISA Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/2022 Time 10:15 AM

Address/Tree location 7655 SE 40TH ST MERCER ISL, WA Tree no. 10 Sheet 1 of 1

Tree species DOUGLAS FIR dbh 36" Height 75 FT Crown spread dia. 55 FT

Assessor(s) _____ Tools used _____ **Time frame** 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1–rare, 2–occasional, 3–frequent, 4–constant)	Practical to move target?	Restriction practical?
1	HOUSE	NO	X	X	X	4	N	N
2	SE 40TH ST	NO	X	X	X	4	N	N
3								
4								

Site Factors

History of failures HEAVY LIMBS **Topography** Flat ☒ Slope ☐ _____ % **Aspect** _____

Site changes None ☐ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe _____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ _____ % Describe _____

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe _____

Tree Health and Species Profile

Vigor Low ☐ Normal ☐ High ☒ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 90 % Chlorotic _____ % Necrotic 10 %

Pests/Biotic _____ **Abiotic** _____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe HEAVY LIMBS

Load Factors

Wind exposure Protected ☐ Partial ☒ Full ☐ Wind funneling ☐ _____ **Relative crown size** Small ☐ Medium ☐ Large ☒

Crown density Sparse ☐ Normal ☒ Dense ☐ **Interior branches** Few ☐ Normal ☒ Dense ☐ **Vines/Mistletoe/Moss** ☐ _____

Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☐ LCR 60 %

Dead twigs/branches ☒ 12 % overall Max. dia. 2"

Broken/Hangers Number 10 Max. dia. 2"

Over-extended branches ☒

Pruning history

Crown cleaned ☐ Thinned ☐ Raised ☒

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other _____

LARGE OVEREXTENDED BRANCHES Condition(s) of concern _____

Part Size 6-10" Fall Distance 30-60 FT

Load on defect N/A ☐ Minor ☐ Moderate ☒ Significant ☐

Likelihood of failure Improbable ☐ Possible ☒ Probable ☐ Imminent ☐

Cracks ☐ _____ Lightning damage ☐

Codominant ☐ _____ Included bark ☐

Weak attachments ☐ _____ Cavity/Nest hole ____ % circ.

Previous branch failures ☐ _____ Similar branches present ☐

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ _____

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☒

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole ____ % circ. Depth _____ Poor taper ☐

Lean 88 ° Corrected? YES

Response growth YES

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth _____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ ____ % circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____

Root plate lifting ☐ Soil weakness ☐

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Risk Categorization

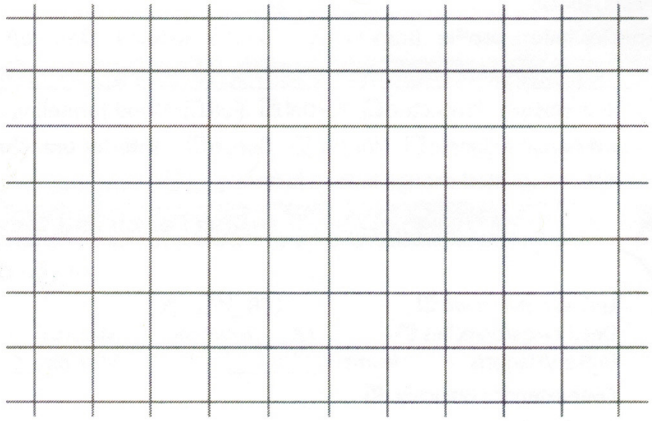
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
HOUSE	BRANCHES	OVEREXTENDED AND HEAVY BRANCH FAIL		X					X		X						X		LOW
STREET				X						X		X					X		LOW

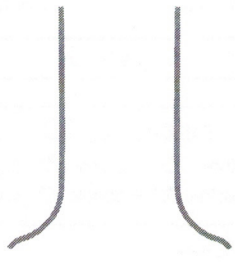
Matrix 1. Likelihood matrix.

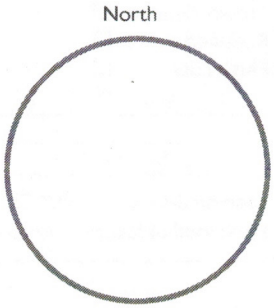
Likelihood of Failure	Likelihood of Impact: Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure: Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low







Notes, explanations, descriptions

LARGE BRANCHES ARE A CONCERN BUT I DONT BELIEVE WOULD HIT HOUSE UNDER NORMAL CIRCUMSTANCES. IF FAILURES OCCUR THEN IT MAY BE AN ISSUE

Mitigation options

1. DEADWOOD AND THIN, REDUCE/SIDE CANOPY NEAR HOUSE — **Residual risk** LOW
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☒ Moderate ☐ High ☐ Extreme ☐

Overall residual risk None ☐ Low ☒ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** 2 YEARS

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☒ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

ISA Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/22 Time 10:35 AM

Address/Tree location 7655 SE 40TH ST MERCERISL, WA Tree no. 11 Sheet 1 of 1

Tree species DOUGLAS FIR dbh 17 Height 45 FT Crown spread dia. 25 FT

Assessor(s) ANDREW RAINES Tools used VISUAL Time frame 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1 – rare, 2 – occasional, 3 – frequent, 4 – constant)	Practical to move target?	Restriction practical?
1	HOUSE	NO		X	X	4	N	N
2	STREET	YES		X	X	4	N	N
3								
4								

Site Factors

History of failures BROKEN LIMBS **Topography** Flat ☒ Slope ☐ _____% **Aspect** _____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe _____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ _____% Describe _____

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe _____

Tree Health and Species Profile

Vigor Low ☒ Normal ☐ High ☐ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 60 % Chlorotic _____% Necrotic 40 %

Pests/Biotic _____ **Abiotic** _____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe HEAVY LIMB FAILURE

Load Factors

Wind exposure Protected ☐ Partial ☐ Full ☒ Wind funneling ☐ _____ **Relative crown size** Small ☒ Medium ☐ Large ☐

Crown density Sparse ☒ Normal ☐ Dense ☐ **Interior branches** Few ☒ Normal ☐ Dense ☐ **Vines/Mistletoe/Moss** ☐ _____

Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☒ LCR 40 %

Dead twigs/branches ☒ 40 % overall Max. dia. 4"

Broken/Hangers Number 20 Max. dia. 3"

Over-extended branches ☒

Pruning history

Crown cleaned ☐ Thinned ☐ Raised ☐

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other _____

Cracks ☐ _____ Lightning damage ☐

Codominant ☒ _____ Included bark ☐

Weak attachments ☐ _____ Cavity/Nest hole ____% circ.

Previous branch failures ☐ _____ Similar branches present ☐

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ _____

Response growth _____

Condition(s) of concern TREE HAS WEIRD TOP

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole ____% circ. Depth _____ Poor taper ☐

Lean 86 ° Corrected? NO, GROWING TOWARDS LIGHT

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth _____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ ____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____

Root plate lifting ☐ Soil weakness ☐

Response growth FLAT SIDE OF BASE

Condition(s) of concern POSSIBLE ROOT ISSUE

Part Size WHOLE TREE Fall Distance WHOLE TREE

Load on defect N/A ☐ Minor ☒ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☒ Probable ☐ Imminent ☐

Risk Categorization

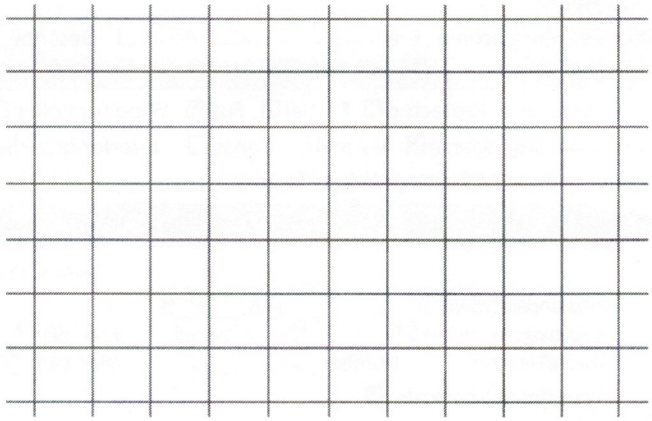
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
HOUSE	BASE ROOT AREA	FLATNESS ON BASE/ TRUNK		X					X		X					X			LOW
STREET				X					X		X					X			LOW

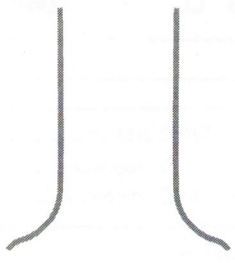
Matrix 1. Likelihood matrix.

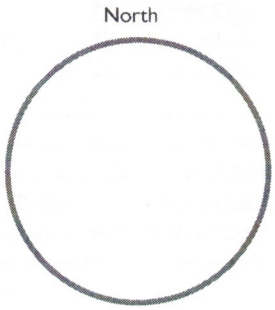
Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low







Notes, explanations, descriptions

- TREE CANOPY WEIGHT TOWARDS HOUSE
- FLAT BASE CONCERN

Mitigation options

1. DEADWOOD, THIN, AND REDUCE EXTRA TOPS TO SINGLE — **Residual risk** NONE
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☒ Moderate ☐ High ☐ Extreme ☐

Overall residual risk None ☒ Low ☐ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** 2 YEARS

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☒ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

Basic Tree Risk Assessment Form

Client PAVE CUTRIGHT Date 6/21/22 Time 11 AM

Address/Tree location 7655 SE 40TH ST MERCER ISL, WA Tree no. 12 Sheet 1 of 1

Tree species DOUGLAS FIR dbh 25" Height 85' Crown spread dia. 40'

Assessor(s) ANDREW RAINES Tools used VISUAL Time frame 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1 x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1 – rare, 2 – occasional, 3 – frequent, 4 – constant)	Practical to move target?	Restriction practical?
1	HOUSE	YES		X	X	4	N	N
2	STREET	YES		X	X	4	N	N
3								
4								

Site Factors

History of failures DEAD LIMBS **Topography** Flat ☐ Slope ☒ 10 % **Aspect** ____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe ____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ ____% Describe ____

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe ____

Tree Health and Species Profile

Vigor Low ☐ Normal ☒ High ☐ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 95 % Chlorotic ____% Necrotic 5 %

Pests/Biotic ____ **Abiotic** ____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe HEAVY LIMB FAILURE

Load Factors

Wind exposure Protected ☐ Partial ☐ Full ☒ Wind funneling ☐ ____ **Relative crown size** Small ☐ Medium ☐ Large ☐

Crown density Sparse ☐ Normal ☒ Dense ☐ **Interior branches** Few ☒ Normal ☐ Dense ☐ **Vines/Mistletoe/Moss** ☐ ____

Recent or expected change in load factors ____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☐ LCR 75 %

Dead twigs/branches ☒ 25 % overall Max. dia. ____

Broken/Hangers Number ____ Max. dia. ____

Over-extended branches ☒

Pruning history

Crown cleaned ☐ Thinned ☐ Raised ☐

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other ____

Cracks ☐ ____ Lightning damage ☐

Codominant ☐ ____ Included bark ☐

Weak attachments ☐ ____ Cavity/Nest hole ____% circ.

Previous branch failures ☒ ____ Similar branches present ☒

Dead/Missing bark ☐ Cankers/Galls/Burls ☒ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ ____

Response growth ____

____ Condition(s) of concern ____

Part Size ____ Fall Distance ____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Part Size ____ Fall Distance ____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole ____ % circ. Depth ____ Poor taper ☐

Lean 85 ° Corrected? YES

Response growth ____

Condition(s) of concern ____

Part Size ____ Fall Distance ____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth ____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ ____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk ____

Root plate lifting ☐ Soil weakness ☐

Response growth ____

Condition(s) of concern ____

Part Size ____ Fall Distance ____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Risk Categorization

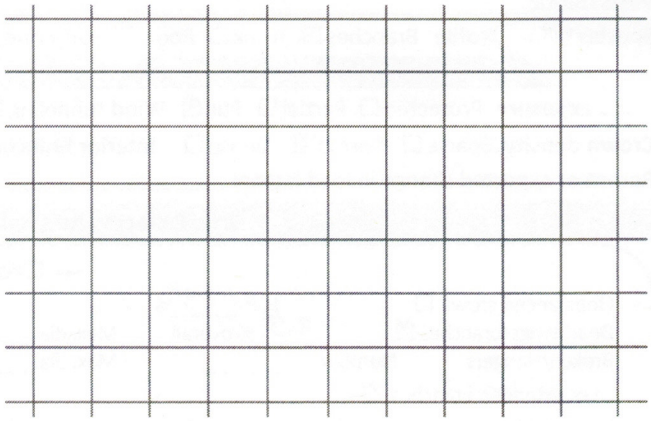
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Failure: Possible	Failure: Probable	Failure: Imminent	Impact: Very low	Impact: Low	Impact: Medium	Impact: High	Failure & Impact (from Matrix 1): Unlikely	Somewhat	Likely	Very likely	Consequences: Negligible	Minor	Significant	Severe	Risk rating (from Matrix 2)

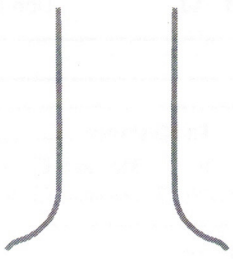
Matrix 1. Likelihood matrix.

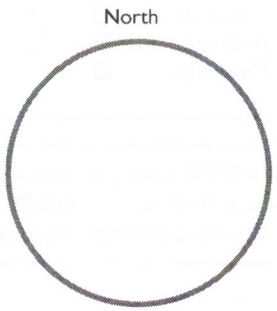
Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low







Notes, explanations, descriptions

TREE IS ONLY A HAZARD IN A FULL TREE OR HALF TREE FAILURE AND TREE IS IN GOOD CONDITION

Mitigation options

1. PRUNE DEADWOOD TREE, CLIMB INSPECTION OF TOP IF QUESTIONABLE — **Residual risk** NONE
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☐ Moderate ☐ High ☐ Extreme ☐

Overall residual risk None ☒ Low ☐ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** NONE

Data ☐ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☐ None ☒ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe CANNOT SEE TOP

ISA Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/22 Time 11:15 AM

Address/Tree location 7655 SE 40TH ST MERCER ISL, WA Tree no. 13 Sheet 1 of 1

Tree species CHERRY dbh 15 Height 50FT Crown spread dia. 20FT

Assessor(s) ANDREW RAINES Tools used VISUAL **Time frame** 2 YEARS

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1 x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1–rare, 2–occasional, 3–frequent, 4–constant)	Practical to move target?	Restriction practical?
1	FENCE	YES		X	X	4	N	N
2	PLAYGROUND	YES		X	X	4	Y	Y
3								
4								

Site Factors

History of failures BRANCHES **Topography** Flat ☒ Slope ☐ _____% **Aspect** _____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe _____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ _____% Describe _____

Prevailing wind direction S W **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe _____

Tree Health and Species Profile

Vigor Low ☐ Normal ☒ High ☐ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 95 % Chlorotic _____% Necrotic 5 %

Pests/Biotic _____ **Abiotic** _____

Species failure profile Branches ☐ Trunk ☒ Roots ☐ Describe DISEASE (SAPWOOD)

Load Factors

Wind exposure Protected ☒ Partial ☐ Full ☐ Wind funneling ☐ _____ **Relative crown size** Small ☐ Medium ☒ Large ☐

Crown density Sparse ☐ Normal ☒ Dense ☐ **Interior branches** Few ☐ Normal ☒ Dense ☐ **Vines/Mistletoe/Moss** ☐ _____

Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☒ LCR 45 %

Dead twigs/branches ☒ 25 % overall Max. dia. 3"

Broken/Hangers Number _____ Max. dia. _____

Over-extended branches ☒

Pruning history

Crown cleaned ☐ Thinned ☐ Raised ☐

Reduced ☐ Topped ☐ Lion-tailed ☐

Flush cuts ☐ Other _____

Cracks ☐ _____ Lightning damage ☐

Codominant ☐ _____ Included bark ☐

Weak attachments ☐ _____ Cavity/Nest hole ____% circ.

Previous branch failures ☒ DEAD Similar branches present ☒

Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ _____

Response growth _____

_____ Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Trunk —

Dead/Missing bark ☒ Abnormal bark texture/color ☐

Codominant stems ☐ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☒ Conks/Mushrooms ☐

Cavity/Nest hole 50 % circ. Depth 3 INCH Poor taper ☐

Lean ____° Corrected? _____

Response growth _____

Condition(s) of concern TREE HAS LARGE WOUND/CAVITY

Part Size 15" Fall Distance 30-40FT

Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth _____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ ____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____

Root plate lifting ☐ Soil weakness ☐

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Risk Categorization

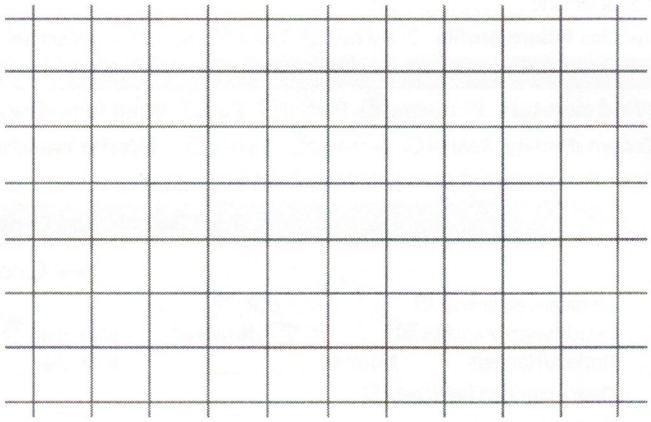
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
FENCE	TRUNK	LARGE WOUND AND DECAYED WOOD			X					X			X		X				LOW
PLAYGROUND					X				X			X			X				LOW

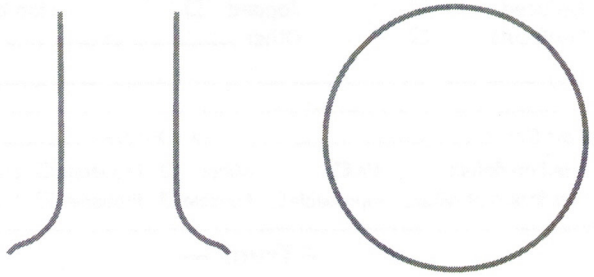
Matrix 1. Likelihood matrix.

Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low





Notes, explanations, descriptions

TREE WILL MOST LIKELY FAIL ON ITS OWN BUT DAMAGE IS SO LOW ITS NO CONCERN

Mitigation options

1. LEAVE INTIL IT FAILS — **Residual risk** LOW
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☒ Moderate ☐ High ☐ Extreme ☐

Overall residual risk None ☐ Low ☒ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** NONE

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☒ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

Basic Tree Risk Assessment Form

Client DAVE CUTRIGHT Date 6/21/22 Time 11:30AM

Address/Tree location 7655 SE 40TH ST MERCER ISLAND WA Tree no. 14 Sheet 1 of 1

Tree species HAWTHORNE dbh 14 Height 30FT Crown spread dia. 20FT

Assessor(s) ANDREW RAINES Tools used VISUAL Time frame

Target Assessment

Target number	Target description	Target protection	Target zone: Target within drip line	Target zone: Target within 1 x Ht.	Target zone: Target within 1.5 x Ht.	Occupancy rate (1 – rare, 2 – occasional, 3 – frequent, 4 – constant)	Practical to move target?	Restriction practical?
1	HOUSE	NONE	X	X	X	4	N	N
2								
3								
4								

Site Factors

History of failures _____ **Topography** Flat ☒ Slope ☐ _____% **Aspect** _____

Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe _____

Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ _____% Describe _____

Prevailing wind direction SW **Common weather** Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe _____

Tree Health and Species Profile

Vigor Low ☐ Normal ☐ High ☒ **Foliage** None (seasonal) ☐ None (dead) ☐ Normal 100 % Chlorotic _____% Necrotic _____%

Pests/Biotic _____ **Abiotic** _____

Species failure profile Branches ☐ Trunk ☐ Roots ☐ Describe _____

Load Factors

Wind exposure Protected ☐ Partial ☐ Full ☒ Wind funneling ☐ _____ **Relative crown size** Small ☐ Medium ☐ Large ☐

Crown density Sparse ☐ Normal ☐ Dense ☒ **Interior branches** Few ☐ Normal ☐ Dense ☒ **Vines/Mistletoe/Moss** ☐ _____

Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☐ LCR 100 %

Dead twigs/branches ☒ 3 % overall Max. dia. 3

Broken/Hangers Number _____ Max. dia. _____

Over-extended branches ☐

Pruning history

Crown cleaned ☒ Thinned ☐ Raised ☐

Reduced ☒ Topped ☒ Lion-tailed ☐

Flush cuts ☐ Other _____

TOPS COULD FAIL

Part Size 3INCH Fall Distance 10FT

Load on defect N/A ☐ Minor ☒ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☒ Probable ☐ Imminent ☐

Cracks ☐ _____ Lightning damage ☐

Codominant ☒ TOPPED REGROWTH Included bark ☐

Weak attachments ☐ _____ Cavity/Nest hole ____% circ.

Previous branch failures ☐ _____ Similar branches present ☐

Dead/Missing bark ☒ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐

Conks ☐ Heartwood decay ☐ _____

Response growth _____

Condition(s) of concern LIMITED GROW SPACE BUT ON HOUSE

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Trunk —

Dead/Missing bark ☒ Abnormal bark texture/color ☒

Codominant stems ☒ Included bark ☐ Cracks ☐

Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐

Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐

Cavity/Nest hole ____% circ. Depth _____ Poor taper ☐

Lean 30 ° Corrected? YES

Response growth YES

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth _____ Stem girdling ☐

Dead ☐ Decay ☐ Conks/Mushrooms ☐

Ooze ☐ Cavity ☐ ____% circ.

Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____

Root plate lifting ☐ Soil weakness ☐

Response growth _____

Condition(s) of concern _____

Part Size _____ Fall Distance _____

Load on defect N/A ☒ Minor ☐ Moderate ☐ Significant ☐

Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

Risk Categorization

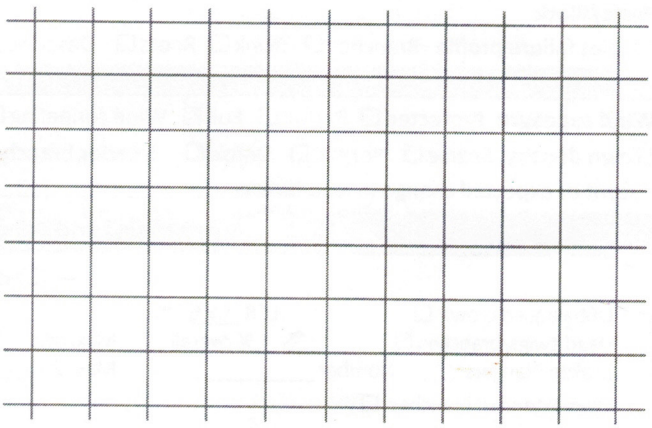
Target (Target number or description)	Tree part	Condition(s) of concern	Likelihood: Failure: Improbable	Likelihood: Failure: Possible	Likelihood: Failure: Probable	Likelihood: Failure: Imminent	Likelihood: Impact: Very low	Likelihood: Impact: Low	Likelihood: Impact: Medium	Likelihood: Impact: High	Likelihood: Failure & Impact (from Matrix 1): Unlikely	Likelihood: Failure & Impact (from Matrix 1): Somewhat	Likelihood: Failure & Impact (from Matrix 1): Likely	Likelihood: Failure & Impact (from Matrix 1): Very likely	Consequences: Negligible	Consequences: Minor	Consequences: Significant	Consequences: Severe	Risk rating (from Matrix 2)
HOUSE	BRANCHES	RUBBING PAINT OF ½ CRITTERS ACCESS			X					X			X			X			MOD

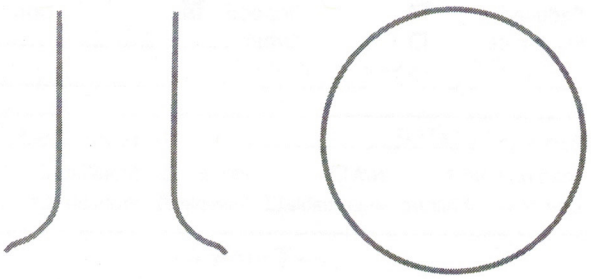
Matrix 1. Likelihood matrix.

Likelihood of Failure	Likelihood of Impact: Very low	Likelihood of Impact: Low	Likelihood of Impact: Medium	Likelihood of Impact: High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure: Negligible	Consequences of Failure: Minor	Consequences of Failure: Significant	Consequences of Failure: Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low





Notes, explanations, descriptions

LIMITED GROW SPACE BESIDES GROWING TOWARDS AND ON HOUSE. INVASIVE HAWTHORNE SPECIES.

Mitigation options

1. REMOVAL OR SNAG — **Residual risk** NONE
2. _____ — **Residual risk** _____
3. _____ — **Residual risk** _____
4. _____ — **Residual risk** _____

Overall tree risk rating Low ☐ Moderate ☒ High ☐ Extreme ☐

Overall residual risk None ☒ Low ☐ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval** NONE

Data ☒ Final ☐ Preliminary **Advanced assessment needed** ☒ No ☐ Yes-Type/Reason _____

Inspection limitations ☒ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe _____

CITY OF MERCER ISLAND

COMMUNITY PLANNING & DEVELOPMENT
9611 SE 36TH STREET | MERCER ISLAND, WA 98040
PHONE: 206.275.7605 | www.mercergov.org

MERCER ISLAND TREE INVENTORY & REPLACEMENT SUBMITTAL INFORMATION

PROJECT INFORMATION

Property Owner Name:	David Cutright
Site Address or Parcel Number:	7655 40TH Street, Mercer Island, WA 98040
Project Contact Name:	Read Ferguson, Western Edge Architecture
Contact Email Address:	fergy_51@hotmail.com
Contact Phone Number:	206 915 5203

EXCEPTIONAL TREES

Exceptional Trees- means a tree or group of trees that because of its unique historical, ecological or aesthetic value constitutes an important community resource. A tree that is rare or exceptional by virtue of its size, species, condition, cultural/historical importance, age, and/or contribution as part of a tree grove. Trees with a diameter of more than 36 inches, or with a diameter that is equal to or greater than the diameter listed in the Exceptional Tree Table shown in MICC 19.16 under Tree, Exceptional.

List the total number of trees for each category and the tree identification numbers from the arborist report.

Number of trees 36" or greater: 1
List tree numbers: 10- 36" dia.,

Number of trees 24" or greater (including 36" or greater): 7
List tree numbers: 3- 27" 6- 32", 7- 35", 8- 25", 9- 26", 10- 36", 12- 25"

Number of trees from Exceptional Tree Table (MICC 19.16): 3
List tree numbers: 6, 7, 10

LARGE REGULATED TREES

Large Regulated Trees- means any tree with a diameter of 10 inches or more, and any tree that meets the definition of an Exceptional Tree.

Number of Large Regulated Trees on site (13)

List tree numbers: 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14

Number of Large Regulated Trees on site proposed for removal (5)

List tree numbers: 6, 7, 8, 9, 14

Percentage of trees to be retained ((A-B)/Ax100) note: must be at least 30% 38%

RIGHT OF WAY TREES

Right of Way Trees- means a tree that is located in the street right of way adjacent to the project property.

Number of Large Regulated Trees in right of way 0

List tree numbers:

Number of Large Regulated Trees in right of way proposed for removal 0

List tree numbers:

Reason for removal:

TREE REPLACEMENT

Tree replacement- removed trees must be replaced based on the ratio in the table below. Replacement trees shall be conifers at least six feet tall and or deciduous at least one and one-half inches in diameter at base.

Diameter of Removed Tree (measured 4.5' above ground)	Tree replacement Ratio	Number of Trees Proposed for Removal	Number of Tree Required for Replacement Based on Size/Type
Less than 10"*	1		
10" up to 24"	2	1	2
Greater than 24" up to 36"	3	3	9
Greater than 36" and any Exceptional Tree	6	1	6
	TOTAL TREE REPLACEMENTS		

no replacement tree is needed if the tree fits all of the following;
***Less than 10 inches in diameter, not an exceptional tree, and not a replacement tree from another tree permit. ***