



Basic Tree Risk Assessment Form

Client Aldo Quintanilla Date 3/27/2024 Time 10:45 AM
Address/Tree location 2605 Laurel Ave NE, Salem OR 97305 Tree no. _____ Sheet 1 of 2
Tree species Black Walnut dbh 33" Height 73' Crown spread dia. 45"
Assessor(s) Leo C. ISA-Certified Arborist (PN-9335A) | TRAQ Qualified Tools used D-Tape, Range-Finder, Mallet, Prove, Cultivator Time frame 1-Year

Target Assessment

Target number	Target description	Target protection	Target zone			Occupancy rate 1 - rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction practical?
			Target within drip line	Target within 1 x Ht.	Target within 1.5 x Ht.			
1	Powerlines / Infrastructure	None	✓			4	No	
2	House to the West	None		✓		4	No	
3	House to the North	None		✓		4	No	
4	House's Ocupants / Pedestrians	Some		✓		4	No	

Site Factors

History of failures Other trees in the area have failed Topography Flat ☒ Slope ☐ _____ % Aspect _____
Site changes None ☐ Grade change ☒ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe Development
Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☒ Pavement over roots ☒ 40 % Describe tree 2-3' from alley / vehicular traffic
Prevailing wind direction N / NW Common weather Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe _____

Tree Health and Species Profile

Vigor Low ☐ Normal ☒ High ☐ Foliage None (seasonal) ☒ None (dead) ☐ Normal _____ % Chlorotic _____ % Necrotic _____ %
Pests/Biotic Rot spots Abiotic Heavy Equipment Damage
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 Fruiting / Seasonal

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☐ LCR 80 %
Dead twigs/branches ☒ 2 % overall Max. dia. 6"
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 Dead Limbs Fall Distance 10'

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

Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

Part Size Co-Dominant Limb Fall Distance 25'

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 1 % circ. Depth 2" Poor taper ☒
Lean _____ ° Corrected? _____
Response growth _____

Condition(s) of concern Tree Failure

Part Size 33" Fall Distance 80'

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												Consequences				Risk rating (from Matrix 2)
			Failure				Impact				Failure & Impact (from Matrix 1)								
			Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	
1	- Limbs	Limb/tree failure			●				●			●				●		Moderate	
	- Whole tree				●				●			●				●		High	
2	- Whole tree	Limb/tree failure		●					●			●				●		Moderate	
3	- Whole tree	Limb/tree failure		●					●			●				●		Moderate	
4	- Limbs	Limb/tree failure		●					●			●					●	Moderate	
	- Wole tree				●				●			●				●		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

The tree named above poses a high threat to infastructure as well as residents and pedestrians. Based on my onsite tree assessment, visual observations, and site factors; It is my proffessional opinion for this tree to be removed to eliminate potential hazards or damage.

Mitigation options

1. Tree Removal	Residual risk	None
2. Pruning: Size reduction, crown cleaning, reduction	Residual risk	some
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 1-Year

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

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

