ISA Basic Tree Risk Assessment Form

Client **Rebecca Isom** Date **9/13/2023** Time **2:30 pm**

Address/Tree location **922 Windemere Dr NW** Tree no. _____ Sheet ____ of ____

Tree species **Betula** dbh **32"** Height **25'** Crown spread dia. **20'**

Assessor(s) **Tim Jones, ISA PN-6819A** Tools used **Phone, Tape** Time frame **1 yr**
4 TRAQ cert.

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	Home	None	X			4	N	N
2								
3								
4								

Site Factors

History of failures **Yes Crown is Gone** 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 **NE** Common weather Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe **Valley Winter conditions**

Tree Health and Species Profile

Vigor Low ☒ Normal ☐ High ☐ Foliage None (seasonal) ☐ None (dead) ☐ Normal **5** % Chlorotic ~~75~~ % Necrotic **95** %

Pests/Biotic **Bronze Bore** Abiotic _____

Species failure profile Branches ☒ Trunk ☐ Roots ☐ Describe **Weak wooded tree**

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 **2** %

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 **Dead & Gone**

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 **None**

Condition(s) of concern **Tree 98% Dead**

Part Size ____ Fall Distance ____

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

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Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐

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— 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 **None**

Condition(s) of concern **98% Dead & Bronze Bore**

Part Size **20'** Fall Distance **20'**

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	Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	Risk rating (from Matrix 2)
					Failure				**Impact**			**Failure & Impact** (from Matrix 1)				**Consequences**			**Likelihood**
Home	Lg stem	Dead			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

- 96% Dead
- Stem Lean at house
- Bronze Bore

North

Mitigation options

1. Remove & Stump grind   Residual risk _____
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 _____