



Basic Tree Risk Assessment Form

Client Chris Davidson Date April 29th Time 1:30 pm
 Address/Tree location 598 18th St Se Salem Tree no. 1 Sheet of
 Tree species Quercus garryana dbh 33" Height 40' Crown spread dia. 40'
 Assessor(s) Tim Jones Tools used Phone, clinometer, Tape 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	Utility lines (Power & communication)	None	<input checked="" type="checkbox"/>			4	N	N
2	Road way	None	<input checked="" type="checkbox"/>			4	N	N
3								
4								

Site Factors

History of failures Broken limbs in the trees, stubs, Poor cuts 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 ☒ 90 % Describe Shop floor & street
 Prevailing wind direction N-NE Common weather Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe Valley conditions

Tree Health and Species Profile

Vigor Low ☐ Normal ☒ High ☐ Foliage None (seasonal) ☐ None (dead) ☐ Normal 50 % Chlorotic % Necrotic %
 Pests/Biotic Power company Hacking Abiotic
 Species failure profile Branches ☒ Trunk ☐ Roots ☒ Describe Known for sudden limb drop & Root Rot

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 Power Company Topping

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☒ LCR 50 %
 Dead twigs/branches ☒ 5 % overall Max. dia.
 Broken/Hangers Number 2 Max. dia. 2"
 Over-extended branches ☒
 Pruning history
 Crown cleaned ☐ Thinned ☐ Raised ☒
 Reduced ☐ Topped ☒ Lion-tailed ☒
 Flush cuts ☒ Other
Severely Topped, Lion Tailed Condition(s) of concern Improper cut's
over extended scaffolding limb
 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
 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 5 ° 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 Conk 90% root's covered
 Part Size Whole Tree Fall Distance 40'
 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)				Negligible	Minor	Significant	Severe	
			Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely					
Utility Wire	Whole tree	Cank, limited road space, Tree health		X					X	X								X	Med
																</			

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

- Rot
- Cank
- Power line butchered

Mitigation options

1. Remove & stump 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

