



A Photographic Guide to the Evaluation of Hazard Trees in Urban Areas

TREE HAZARD EVALUATION FORM 2nd Edition

Site/Address: OPP. 66 FRESHWATER ROAD
 Map/Location: JINGILI
 Owner: public DCC private _____ unknown _____ other _____
 Date: 14 OCT 09 Inspector: E. FISHER
 Date of last inspection: 6 OCT 09

HAZARD RATING:

<u>3</u>	+	<u>4</u>	+	<u>3</u>	=	<u>10</u>
Failure Potential		Size of part		Target Rating		Hazard Rating
<input checked="" type="checkbox"/>						Immediate action needed
						Needs further inspection
						Dead tree

TREE CHARACTERISTICS

Tree #: _____ Species: KHAYA SENEGALENSIS
 DBH: 100cm # of trunks: 1 Height: 26 mtrs Spread: 26 mtrs
 Form: ☒ generally symmetric ☐ minor asymmetry ☐ major asymmetry ☐ stump sprout ☐ stag-headed
 Crown class: ☐ dominant ☒ co-dominant ☐ intermediate ☐ suppressed
 Live crown ratio: 70 % Age class: ☐ young ☐ semi-mature ☒ mature ☐ over-mature/senescent
 Pruning history: ☒ crown cleaned ☐ excessively thinned ☐ topped ☒ crown raised ☐ pollarded ☐ crown reduced ☐ flush cuts ☐ cabled/braced
☐ none ☒ multiple pruning events Approx. dates: LAST 15 YEARS
 Special Value: ☐ specimen ☐ heritage/historic ☐ wildlife ☐ unusual ☒ street tree ☐ screen ☒ shade ☐ indigenous ☐ protected by gov. agency

TREE HEALTH

Foliage color: ☒ normal ☐ chlorotic ☐ necrotic Epicormics? ☒ Y ☐ N
 Foliage density: ☐ normal ☒ sparse Leaf size: ☐ normal ☒ small
 Annual shoot growth: ☐ excellent ☐ average ☒ poor Twig Dieback? ☒ Y ☐ N
 Woundwood development: ☐ excellent ☒ average ☐ poor ☐ none
 Vigor class: ☐ excellent ☐ average ☐ fair ☒ poor
 Major pests/diseases: MASTOTERMES - INFESTATION HAS BEEN TREATED BUT ASSOCIATED DAMAGE IS TERMINAL.

SITE CONDITIONS

Site Character: ☐ residence ☐ commercial ☐ industrial ☒ park ☐ open space ☐ natural ☐ woodland/forest
 Landscape type: ☒ parkway ☐ raised bed ☐ container ☐ mound ☐ lawn ☐ shrub border ☐ wind break
 Irrigation: ☒ none ☐ adequate ☐ inadequate ☐ excessive ☐ trunk wetted
 Recent site disturbance? ☒ Y ☐ N ☐ construction ☐ soil disturbance ☐ grade change ☐ line clearing ☐ site clearing
 % dripline paved: 0% 10-25% 25-50% 50-75% 75-100% Pavement lifted? ☒ Y ☐ N
 % dripline w/ fill soil: 0% 10-25% 25-50% 50-75% 75-100%
 % dripline grade lowered: 0% 10-25% 25-50% 50-75% 75-100%
 Soil problems: ☐ drainage ☒ shallow ☒ compacted ☐ droughty ☐ saline ☐ alkaline ☐ acidic ☐ small volume ☐ disease center ☐ history of fail
☒ clay ☐ expansive ☐ slope _____° aspect: _____
 Obstructions: ☐ lights ☐ signage ☐ line-of-sight ☐ view ☒ overhead lines ☐ underground utilities ☒ traffic ☒ adjacent veg. ☐ _____
 Exposure to wind: ☐ single tree ☐ below canopy ☐ above canopy ☐ recently exposed ☐ windward, canopy edge ☒ area prone to windthrow
 Prevailing wind direction: _____ Occurrence of snow/ice storms ☒ never ☐ seldom ☐ regularly

TARGET

Use Under Tree: ☐ building ☒ parking ☒ traffic ☒ pedestrian ☐ recreation ☐ landscape ☐ hardscape ☐ small features ☒ utility lines
 Can target be moved? ☒ Y ☐ N Can use be restricted? ☒ Y ☐ N
 Occupancy: ☐ occasional use ☐ intermittent use ☒ frequent use ☐ constant use

TREE DEFECTS

ROOT DEFECTS:

Suspect root rot: ☒ Y ☐ N Mushroom/conk/bracket present: Y ☒ N ID: _____
 Exposed roots: ☐ severe ☒ moderate ☐ low Undermined: ☐ severe ☐ moderate ☐ low
 Root pruned: _____ distance from trunk Root area affected: _____ % Buttress wounded: ☒ Y ☐ N When: LAST 12 MONTHS
 Restricted root area: ☐ severe ☒ moderate ☐ low Potential for root failure: ☒ severe ☐ moderate ☐ low BY TERMITES
 LEAN: _____ deg. from vertical ☒ natural ☐ unnatural ☐ self-corrected Soil heaving: Y ☐ N
 Decay in plane of lean: Y ☒ N Roots broken ☒ Y ☐ N Soil cracking: Y ☒ N
 Compounding factors: VASCULAR SYSTEM COMPROMISED, STRUCTURAL INTEGRITY COMPROMISED Lean severity: ☐ severe ☐ moderate ☐ low

CROWN DEFECTS: Indicate presence of individual defects and rate their severity (s = severe, m = moderate, l = low)

DEFECT	ROOT CROWN	TRUNK	SCAFFOLDS	BRANCHES
Poor taper			<input checked="" type="checkbox"/>	
Bow, sweep			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Codominants/forks				
Multiple attachments			<input checked="" type="checkbox"/>	
Included bark			<input checked="" type="checkbox"/>	
Excessive end weight				
Cracks/splits				
Hangers				<input checked="" type="checkbox"/>
Girdling	<input checked="" type="checkbox"/>			
Wounds/seam	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Decay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Cavity				
Conks/mushrooms/bracket				
Bleeding/sap flow				
Loose/cracked bark	<input checked="" type="checkbox"/>			
Nesting hole/bee hive				
Deadwood/stubs				
Borers/termites/ants	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Cankers/galls/burls				
Previous failure				<input checked="" type="checkbox"/>

HAZARD RATING

Tree part most likely to fail: ROOT CROWN - TRUNK

Inspection period: 3 MONTH annual _____ biannual _____ other _____

Failure Potential + Size of Part + Target Rating = Hazard Rating

3 + 4 + 3 = 10

Failure potential: 1 - low; 2 - medium; 3 - high; 4 - severe

Size of part: 1 - <6" (15 cm); 2 - 6-18" (15-45 cm);
3 - 18-30" (45-75 cm); 4 - >30" (75 cm)

Target rating: 1 - occasional use; 2 - intermittent use;
3 - frequent use; 4 - constant use

HAZARD ABATEMENT

Prune: ☐ remove defective part ☐ reduce end weight ☐ crown clean ☐ thin ☐ raise canopy ☐ crown reduce ☐ restructure ☐ shape

Cable/Brace: _____ Inspect further: ☐ root crown ☐ decay ☐ aerial ☐ monitor

Remove tree: ☒ Y ☐ N Replace? ☒ Y ☐ N Move target: Y ☐ N Other: REPLACE WITH TAMARINDUS INDICUS

Effect on adjacent trees: ☐ none ☐ evaluate

Notification: ☐ owner ☒ manager ☐ governing agency Date: _____

COMMENTS

SEVERE DAMAGE TO ROOT CROWN / BUTRESS. MASTOTERMES HAVE CAUSED DEATH OF MAJOR VASCULAR TISSUE IMPEDING NUTRIENT CYCLING THROUGHOUT TREE.

STRUCTURAL INSTABILITY IS NOW A HAZARD AS THE TREE IS SUPPORTING ITSELF ON HEARTWOOD ONLY, AND IS UNABLE TO CARRY OUT ESSENTIAL BIOLOGICAL FUNCTIONS FOR LONG TERM SURVIVAL. DANGEROUS TO LIFE

ATTACHMENT B



ATTACHMENT C



ATTACHMENT D



