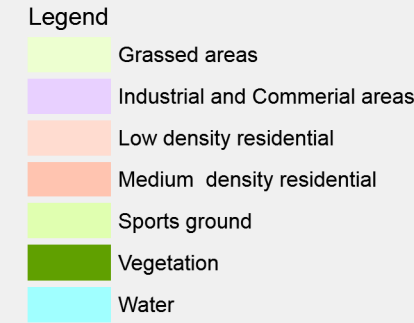


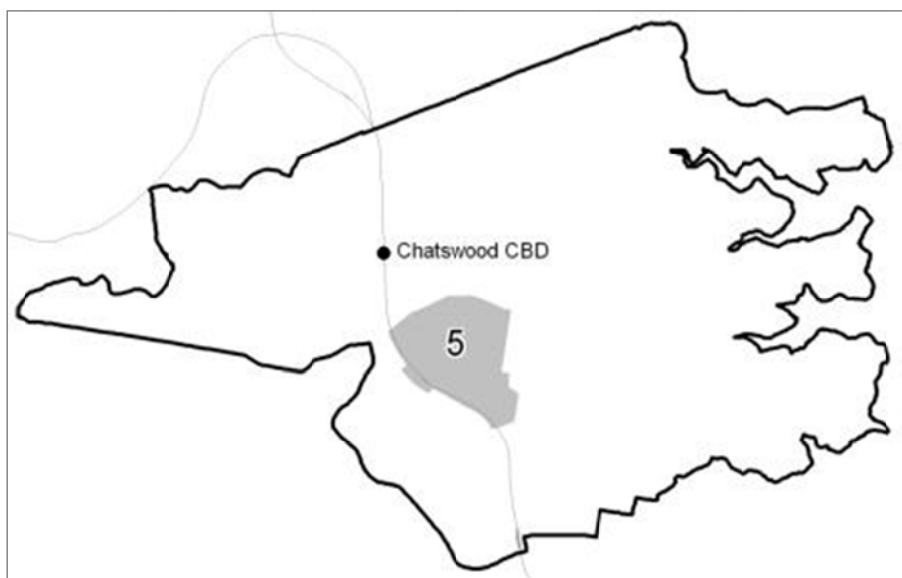
Willoughby City Councils Street Tree Master Plan.

Precinct 5

West Central



5. West-central – low density residential (incl. Conservation Areas)



Key landscape features

Geology and soils:

Wianamatta Group shales (approx. 60%) – northern, north-western and central parts of precinct; soils are generally shallow to moderately deep loams, silty-loams and clay-loam soils of low to moderate fertility;

Hawkesbury sandstone (approx. 35%) – eastern and south-eastern portion; fine to coarse grained quartz sandstone with inter-bedded shale lenses; soils are generally shallow, apedal and porous sandy to sandy loams with very low fertility;

Disturbed terrain/ ex situ fill material (approx. 5% of precinct) – southern corner adjoining Gore Hill Freeway (Artarmon Reserve).

Topography, slope and aspect:

Undulating to rolling low hills with moderately steep slopes; some outcropping of sandstone rock benches and broken scarps in south-eastern portion; aspect varies – generally east, south-east to south.

Cultural landscape:

Predominantly low density residential (incl. Artarmon Conservation Area and small southern portion of South Chatswood Conservation Area); Mowbray Road (northern boundary), rail corridor (western boundary), Artarmon Reserve/ Gore Hill Freeway (southern boundary) and Sydney Street (eastern boundary)

Presence of remnant native vegetation:

Burra Road – adjacent to Artarmon Reserve (Remnant Blue Gum High Forest (BGHF) community); also remnant BGHF components in Onyx Road, Shepherd Road and Smith Road associated with drainage reserves (source: *Willoughby Natural Heritage Register*).

Streetscape type/character:

Dominant cultural plantations including single or mixed species (native and exotic), evergreen or deciduous avenues; significant Inter-war period plantations.

Heritage Conservation Areas:

1. Artarmon Heritage Conservation Area: C1 (WDCP 2012 Part H: Heritage Item H3.2); and
2. Portion (incl. Mowbray Road) of South Chatswood Heritage Conservation Area: C11 (WDCP 2012 Part H: Heritage Item H3.12).

Historic significance:

Earliest land grants 1793-4; Timber-getting/ clearing followed by some livestock grazing during early nineteenth century; railway construction in the latter part of the nineteenth century; Mowbray Road – grand Victorian villas (1880s) and later Federation two-storey mansions set in large exotic gardens along this prominent ridgeline; in broader terms, this precinct conserves a rich variety of California and Inter-war period bungalows (1920s-1930s) as well as some earlier Federation era residential development.

HCA-C1 Key period of significance: 1900-1940 (WDCP, 2012, H3-4); and

HCA-C11 Key period of significance: 1880-1930 (WDCP, 2012, H3-43).

Significant Inter-war period (single species and mixed) plantations:

Burra Road

Cameron Avenue

Tindale Road (between Artarmon Road and Cameron Avenue)

Age structure of cultural street tree plantations:

Conservation Area: Inter-war period plantations (up to 80-90 years+)

Dominant planting: varies; generic native planting (up to 30-40 years+)

PRECINCT 5: WEST-CENTRAL (LOW DENSITY RESIDENTIAL/ CONSERVATION)
Existing typical or dominant planted tree species*

Location	Tree Species (cultivated)
Burra Road	<i>Lophostemon confertus</i> (Brush Box) <i>Lagerstroemia indica</i> var. (Crepe Myrtle) <i>Phoenix canariensis</i> (Canary Island Date Palm)
Cameron Avenue/ Harden Road	<i>Lophostemon confertus</i> (Brush Box) <i>Jacaranda mimosifolia</i> (Jacaranda) <i>Cinnamomum camphora</i> (Camphor Laurel)
Elizabeth Street/ Muttama Road/ Brand Street	<i>Lophostemon confertus</i> (Brush Box) <i>Jacaranda mimosifolia</i> (Jacaranda) <i>Acmena smithii</i> var. <i>minor</i> (Dwarf Lilly Pilly)
Artarmon Road	<i>Lophostemon confertus</i> (Brush Box) <i>Tristanopsis laurina</i> (Water Gum) <i>Callistemon</i> spp. (Bottlebrush)
Cambridge Road/ Coree Road	<i>Lophostemon confertus</i> (Brush Box) <i>Tristanopsis laurina</i> (Water Gum) <i>Melaleuca quinquenervia</i> (Broad-leaved Paperbark)
Smith Road/ Godfrey Road/ Onyx Road	<i>Jacaranda mimosifolia</i> (Jacaranda) <i>Melia azedarach</i> var. <i>australasica</i> (White Cedar) <i>Lagerstroemia indica</i> var. (Crepe Myrtle)
Stafford Road/ Shepherd Road	<i>Jacaranda mimosifolia</i> (Jacaranda) <i>Callistemon viminalis</i> (Weeping Bottlebrush) <i>Phoenix canariensis</i> (Canary Island Date Palm)
Mowbray Road	<i>Lophostemon confertus</i> (Brush Box)

* NOTE: Street tree planting is dominated by a wide range of exotic and generic native trees and shrubs, including various cultivars.

Key precinct objectives

- Protect and manage the historic streetscape character and visual amenity of the Heritage Conservation Areas (i.e. Inter-war period plantations) and provide consistency in infill and replacement programs in accordance with heritage palettes;
- Protect and maintain the integrity and intactness of historic single species and mixed species avenues;
- Promote consistency in tree species selection ensuring continuity, unity and cohesiveness in the palettes for each street and across the precinct;
- Avoid infill planting strategies which add further layers of inconsistent, disjunctive and/ or mixed generic native and exotic tree species of varying scale, form and texture;

- Promote strategies to supplement and enhance ecological connectivity between Artarmon Reserve, Cordia Way and Marlow Road Reserve (including planting of BGHF canopy trees in Artarmon Road, Onyx Road, Smith Road, Weedon Road, Godfrey Road);
- Implement a strategy using provenance-sourced material consistent with critically endangered Blue Gum High Forest (i.e. avoid use of generic native species in this context).

PRECINCT 5: WEST-CENTRAL (LOW DENSITY RESIDENTIAL/ CONSERVATION) Proposed street tree species						
Tree Species	Common Name	evergreen	deciduous	habit/form ¹	verge width ²	power-lines ³
<i>Acmena smithii</i> (ALL)*	Lilly Pilly	E	-	cr	N	N
<i>Acmena smithii</i> var. minor	Lilly Pilly (incl. cv)**	E	-	cr	N	Y
<i>Angophora costata</i> (BGHF)*	Smooth-barked Apple	E	-	os	M	N
<i>Backhousia citriodora</i>	Lemon-scented Myrtle	E	-	cr	M	N
<i>Banksia serrata</i>	Saw-toothed Banksia	E	-	os	M	Y
<i>Callistemon</i> spp.	Bottlebrush	E	-	cn	M	Y
<i>Cupaniopsis anacardioides</i>	Tuckeroo	E	-	cr	N	Y
<i>Eucalyptus haemastoma</i>	Scribbly Gum	E	-	os	W	N
<i>Eucalyptus paniculata</i> (BGHF)*	Grey Ironbark	E	-	os	W	N
<i>Eucalyptus pilularis</i> (BGHF)*	Blackbutt	E	-	os	W	N
<i>Eucalyptus saligna</i> (BGHF)*	Sydney Blue Gum	E	-	os	W	N
<i>Fraxinus</i> spp.	Ash	-	D		M	Y
<i>Glochidion ferdinandi</i>	Cheese Tree	E	-	cs	M	Y
<i>Gordonia axillaris</i>	Gordonia	E	-	cu	M	Y
<i>Jacaranda mimosifolia</i>	Jacaranda	-	D	os	M	N
<i>Lagerstroemia indica</i> x <i>L. fauriei</i> var.	Crepe Myrtle cv.***	-	D	cu	M	Y
<i>Lophostemon confertus</i>	Brush Box	E	-	cr	W	N
<i>Syncarpia glomulifera</i> (BGHF)*	Turpentine	E	-	cs	W	N

<i>Tristaniopsis</i> spp.	Water Gum	E	-	cr	M	Y
---------------------------	-----------	---	---	----	---	---

NOTES: Species are shown in alphabetical order and do not denote dominance or ranking.

* Local native species and ecological community

BGHF = Blue Gum High Forest (critically endangered EEC)

** *Acmena smithii* var. *minor* including psyllid-resistant cultivars "Red Head" (burgundy red new foliage) and "Sublime" (lush green new foliage).

*** *Lagerstroemia indica* x *L. fauriei* select cultivars including "Acoma", "Sioux", "Natchez" and "Tuscarora".

'HABIT/ FORM OF TREE

c = compact/dense foliage; o = open crown/ canopy;

upright = u; r = rounded; s = spreading; n = narrow/columnar or pyramidal.

²MINIMUM VERGE WIDTH (incl. footpath):

N = narrow (<2.5 metres)

M = medium (2.5-4.0 metres)

W = wide (>4.0 metres)

³PLANTING UNDER POWER-LINES (incl. ABC):

Item denotes suitability for planting under overhead power-lines or aerial bundled cabling:

N = NO; Y = YES



Lilly Pilly
Acmena smithii



Smooth-barked Apple
Angophora costata



Outeniqua Yellowwood
Afrocarpus falcatus



Lemon-scented Myrtle
Backhousia citriodora



Tree Waratah
Alloxylon flammeum



Grey Myrtle (immature)
Backhousia myrtifolia



Tuckeroo
Cupaniopsis anacardioides



Red Bloodwood – bark detail
Corymbia gummifera



Eumundi Quandong
Elaeocarpus eumundi



Heart-leaf Stringybark – leaf detail
Eucalyptus camfieldii



Broad-leaved Scribbly Gum
Eucalyptus haemastoma



Sydney Peppermint
Eucalyptus piperita



Narrow-leaved Scribbly Gum
Eucalyptus racemosa



Sydney Blue Gum
Eucalyptus saligna



Australian Teak
Flindersia australis



Bumpy Ash
Flindersia schottiana



Cheese Tree
Glochidion ferdinandi



Gordonia
Gordonia axillaris

Willoughby Street Tree Master Plan

WILLOUGHBY CITY COUNCIL

October 2014

LandArc Pty Limited

Int. Ref: 82741068



Purple-leaf Hibiscus
Hibiscus tiliaceus var. *rubra*



Jacaranda
Jacaranda mimosifolia



Crepe Myrtle cv. Yuma
Lagerstroemia indica x *L. fauriei*



Southern Magnolia cv. Exmouth
Magnolia grandiflora 'Exmouth'



Ornamental Pear – autumn foliage
Pyrus calleryana 'Chanticleer'



Turpentine
Syncarpia glomulifera



Cherry Satinash
Syzygium luehmannii



Weeping Lilly Pilly
Waterhousea floribunda



Water Gum cv. Luscious
Tristaniopsis laurina 'Luscious'



Golden Penda
Xanthostemon chrysanthus