

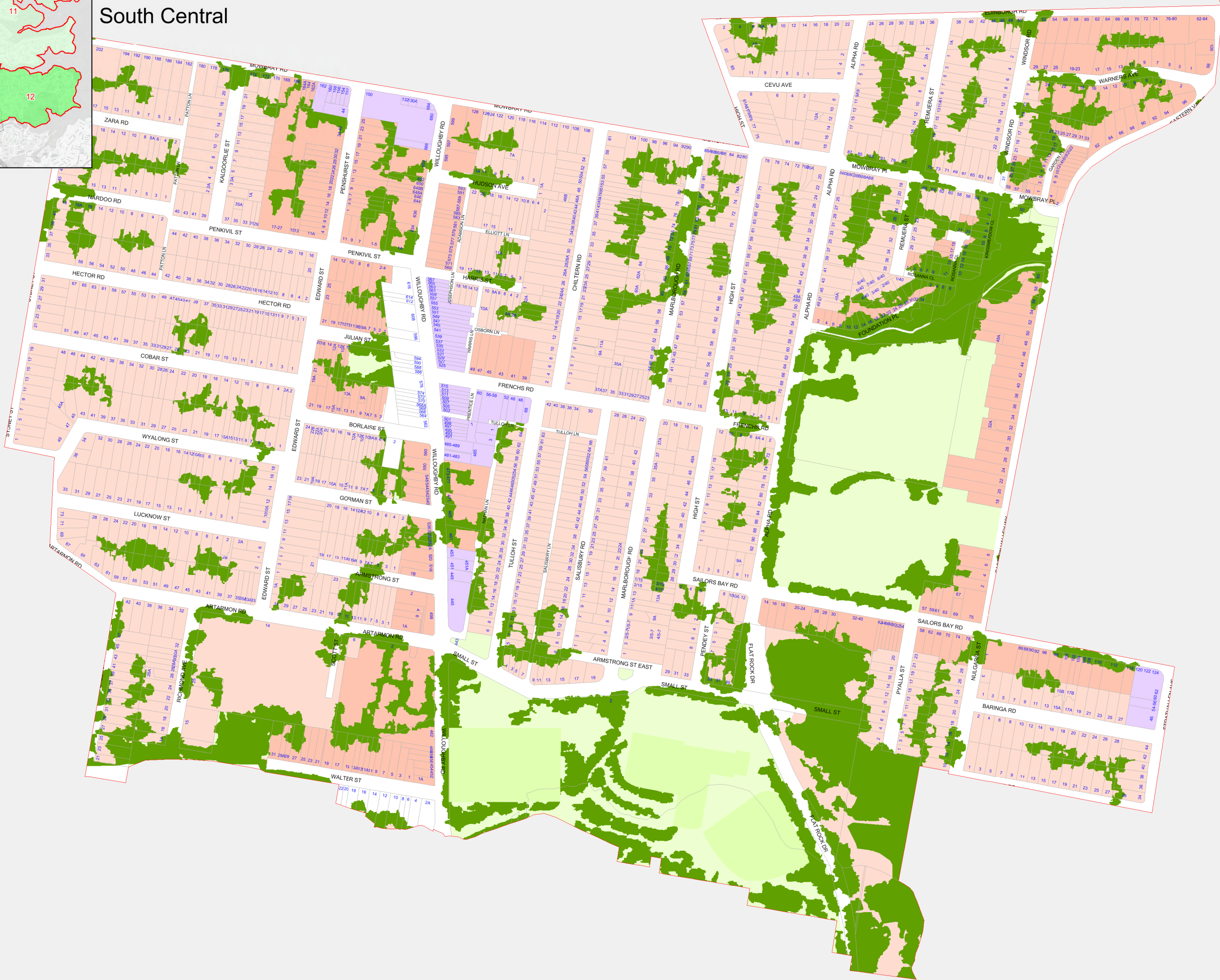
Willoughby City Councils Street Tree Master Plan.

Precinct 7

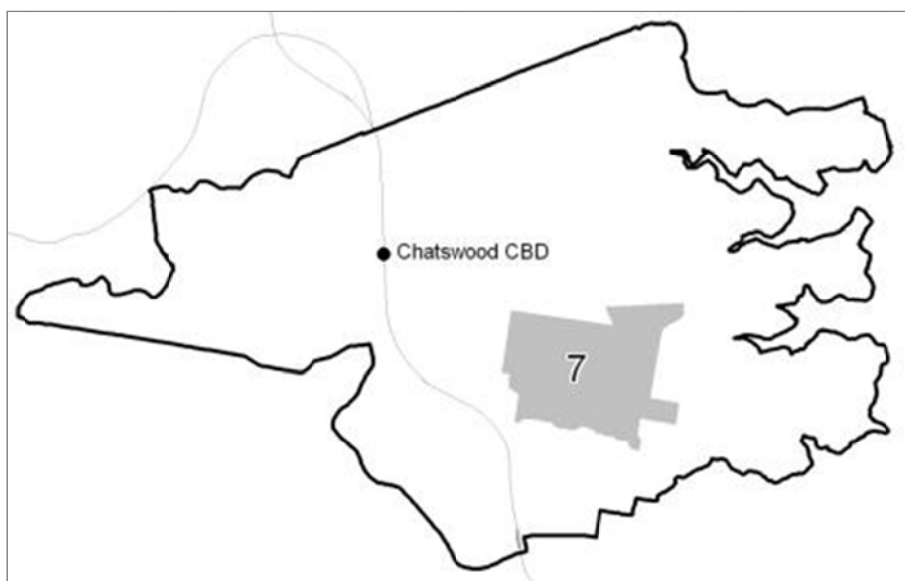
South Central



- Legend
- Grassed areas
 - Industrial and Commerial areas
 - Low density residential
 - Medium density residential
 - Sports ground
 - Vegetation
 - Water



7. South-central mixed residential and commercial



Key landscape features

Geology and soils:

Hawkesbury sandstone (approx. 60%) – typically 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;

Wianamatta Group shale (approx. 20% of precinct) – along northern boundary of precinct; shallow to moderately deep loams, silty-loams and clay-loam soils of low to moderate fertility;

Disturbed terrain/ ex situ fill material (approx. 20% of precinct/ two areas) – SCEGGS War Memorial Playing Fields and local area; and Hallstrom Park, Bicentennial Reserve & Flat Rock Gully Reserve

Topography, slope and aspect:

Central ridges and slopes – undulating to rolling low hills with no rock outcrops grading to localised steep slopes with some sandstone outcropping and benches;

Southern and south-eastern areas – moderate to very steep sandstone slopes with rock outcrops, benches and broken scarps (up to 10 metres high); aspect varies – mainly south-west to south-east.

Cultural landscape:

Predominantly low density residential (incl. eastern portion of South Chatswood Conservation Area), also medium density residential/ commercial along central and eastern road corridors (Willoughby Road and Eastern Valley Way); Mowbray Road/ Edinburgh Road (northern boundary), Sydney Road/ Chelmsford Avenue (western boundary), Gore Hill Freeway/ Bicentennial Reserve & Flat Rock Gully Reserve (southern boundary) and Eastern Valley Way (eastern boundary)

Presence of remnant native vegetation:

Flat Rock Gully Reserve – conserves remnant Sydney Sandstone Ridgetop Woodland (10ar (i)) and Sydney Sandstone Gully Forest (10ag (i)). No remnant native vegetation in any streetscapes. Prior to clearing, this precinct would have supported a range of ecological communities including Blue Gum High Forest, Sydney-Turpentine Ironbark Forest, Sydney Sandstone Gully Forest and Sydney Sandstone Ridgetop Woodland (source: *Willoughby Natural Heritage Register*).

Streetscape type/character:

Dominant cultural plantations/ mixed exotic and native tree species (evergreen and deciduous); some fine avenues (e.g. Marlborough Road/ north of Frenchs Road – Broad-leaved Paperbarks in wide verges); typically mixed range of generic native species (e.g. *Eucalyptus*, *Corymbia*, *Melaleuca*, *Banksia*, *Callistemon*, *Tristanopsis* spp.). For example, Hector Street has 22 tree species (12 native/ 10 exotic trees) out of a total of 77 planted trees).

Heritage Conservation Area:

1. Portion (incl. Sydney Road) of Artarmon Heritage Conservation Area: C1 (WDCP 2012 Part H: Heritage Item H3.2).

Historic significance:

HCA-C1 Key period of significance: 1900-1940 (WDCP, 2012, H3-4)
For further details refer to Precinct 5.

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

Alpha Road (SCEGGS Playing Fields – Brush Box boundary plantation)
Edinburgh Road (western portion)

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 7: SOUTH-CENTRAL MIXED RESIDENTIAL & COMMERCIAL Existing typical or dominant planted tree species *	
Location	Tree Species (cultivated)
Edinburgh Road	<i>Lophostemon confertus</i> (Brush Box) <i>Fraxinus angustifolia</i> subsp. <i>oxycarpa</i> 'Raywood' (Claret Ash) <i>Lagerstroemia indica</i> var. (Crepe Myrtle)
Alpha Road	<i>Melaleuca quinquenervia</i> (Broad-leaved Paperbark) <i>Tristaniopsis laurina</i> (Water Gum) <i>Callistemon viminalis</i> (Weeping Bottlebrush)
Eastern Valley Way (southern portion)	<i>Corymbia maculata</i> (Spotted Gum) <i>Melaleuca quinquenervia</i> (Broad-leaved Paperbark) <i>Lophostemon confertus</i> (Brush Box)
Nulgarra Street/ Pyalla Street	<i>Tristaniopsis laurina</i> (Water Gum) <i>Callistemon viminalis</i> (Weeping Bottlebrush) <i>Eucalyptus haemastoma</i> (Scribbly Gum)
Tulloh Street/ Chiltern Road	<i>Callistemon viminalis</i> (Weeping Bottlebrush) <i>Triadica sebifera</i> syn. <i>Sapium sebiferum</i> (Chinese Tallow Tree) <i>Eucalyptus</i> spp. (mixed generic Eucalypts)
Salisbury Road/ Marlborough Road	<i>Callistemon viminalis</i> (Weeping Bottlebrush) <i>Buckinghamia celsissima</i> (Ivory Curl Tree) <i>Melaleuca quinquenervia</i> (Broad-leaved Paperbark)
Willoughby Road (northern portion)	<i>Ulmus parvifolia</i> (Chinese Elm) <i>Pyrus calleryana</i> 'Chanticleer' (Ornamental Pear) <i>Tristaniopsis laurina</i> (Water Gum)
Hector Road/ Wyalong Street	<i>Lophostemon confertus</i> (Brush Box) <i>Callistemon viminalis</i> (Weeping Bottlebrush) <i>Eucalyptus</i> spp. (mixed generic Eucalypts)

* NOTE: Street tree planting is dominated by a wide range of exotic and generic native trees and shrubs, including various cultivars (15-20+ tree species per street is typical).

Key precinct objectives

- Protect and maintain the integrity and intactness of Inter-war period avenues and row plantations;
- Implement a program to phase-out unsuitable and/ or poorly performing street trees including removal of disparate elements (i.e. varying forms, habit, structure, texture, etc.) and variety of tree species in many streets;
- 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;
- Consolidate thematic planting approach in commercial centres including use of select cultivars of deciduous species to enhance microclimatic conditions and to provide seasonal colour and texture;
- Prioritise key connector roads including Willoughby Road and Eastern Valley Way implementing a planting strategy using single or two (mixed) species within the streetscape (i.e. one species under overhead powerlines/ shop awnings and alternative species with no service restrictions).

PRECINCT 7: SOUTH-CENTRAL MIXED RESIDENTIAL & COMMERCIAL Proposed street tree species						
Tree Species	Common Name	evergreen	deciduous	habit/form ¹	verge width ²	power-lines ³
<i>Acmena smithii</i>	Lilly Pilly	E	-	cr	N	N
<i>Acmena smithii</i> var. minor	Lilly Pilly (incl. cv)*	E	-	cr	N	Y
<i>Backhousia myrtifolia</i>	Grey Myrtle	E	-	cr	N	Y
<i>Banksia serrata</i>	Saw-toothed Banksia	E	-	os	M	Y
<i>Eucalyptus haemastoma</i>	Scribbly Gum	E	-	os	W	N
<i>Eucalyptus racemosa</i>	Scribbly Gum	E	-	os	M	N
<i>Flindersia schottiana</i>	Bumpy Ash	E	-	cs	M	N

<i>Jacaranda mimosifolia</i>	Jacaranda	-	D	os	M	N
<i>Lophostemon confertus</i>	Brush Box	E	-	cr	W	N
<i>Metrosideros spp.</i>	NZ Christmas Bush	E	-	us	M	Y
<i>Olea spp.</i>	Olive	E	-	cn	N	Y
<i>Pyrus calleryana</i> 'Cleveland Select'	Ornamental Pear	-	D	cr	M	N
<i>Pyrus calleryana</i> 'Capital'	Ornamental Pear	-	D	cn	N	N
<i>Syzygium luehmannii</i>	Cherry Satinash	E	-	cu	N	Y
<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	E	-	cr	M	N
<i>Tristanopsis laurina</i>	Water Gum	E	-	cr	M	Y
<i>Waterhousea floribunda</i>	Weeping Lilly Pilly	E	-	cs	M	N
<i>Xanthostemon chrysanthus</i>	Golden Penda	E	-	cr	N	Y

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

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

'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



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

Willoughby Street Tree Master Plan

WILLOUGHBY CITY COUNCIL

October 2014

LandArc Pty Limited

Int. Ref: 82741068



Cherry Satinash
Syzygium luehmannii



Weeping Lilly Pilly
Waterhousea floribunda



Water Gum cv. Luscious
Tristaniopsis laurina 'Luscious'



Golden Penda
Xanthostemon chrysanthus