

Willoughby Natural Heritage Register - Castlecrag data sheets

KEY

COLUMN 1: LAND DESCRIPTION: All property addresses are listed in alphabetical order under the street name and divided into three categories (colour coded):

Residential Properties and Schools

Road reserves, drainage easements and public pedestrian linkages

Public reserves

COLUMN 2: ITEM refers to a scheduled item assessed as having natural heritage values or significance as defined in the study (e.g. single tree, tree group, remnant community, sandstone outcrop or scarp, etc.).

COLUMN 3: ECOLOGICAL COMMUNITY and map units are in accordance with Benson & Howell (1994) in *Cunninghamia* 3(4) pp. 677-711, Royal Botanic Gardens, Sydney.

COLUMN 4: SPECIES = listed tree species (NOTE: 6-letter epithet/ identity code GENUS-SPECIES); refer to **Key to Native Plant Species Schedule - Castlecrag**.

COLUMN 5: AGE = estimated age of listed heritage tree/ item. These estimates are generally very conservative (eg. long lived species may be several decades older than estimates).

COLUMN 6: HEIGHT = estimated height (in metres)

COLUMN 7: SPREAD = estimated canopy diameter (in metres)

COLUMN 8: CONDITION refers to overall health, vigour and structure of scheduled tree(s). Description as 'regrowth' is used as a general reference to mesic shift/ level of disturbance and modification (incl. common tree/ shrub species such as *Pittosporum undulatum*, *Glochidion ferdinandi*, *Homalanthus populifolius*, etc).

COLUMNS 9-11: For a detailed explanation of ECOLOGICAL INTEGRITY, DURABILITY RANKING and CORRIDOR LINKAGES refer to *WCC Natural Heritage Register (2002)*.

COLUMN 12: EXISTING PROTECTION identifies legislative framework for protection (as of 4/07/2014). Refer to current Willoughby LEP.

COLUMN 13: NOTES includes additional information describing listed items, context and description of remnant native components.

Castlecrag contains many examples of local and generic native planting. In many instances these cultivated plants, of unknown provenance, have been inter-mixed with remnant native communities particularly along disturbed/ modified edges to bushland reserves, road verges and easements. In instances where native cultivated items are in association with listed natural heritage items they are identified in the NOTES column and shown in red font. Controlled broad area burn and pile burn map data (printed 20/10/2008) were added to Castlecrag listings (Source: WCC/ Davis, F.).

The data for this study was collected by Noel Ruting, LandArc Pty Limited between 14/12/2009 and 4/07/2014.

Suburb: Castlecrag

Ecological Communities: Sydney Sandstone Gully Forest (10ag(i) and 10ag(iii)) and Sydney Sandstone Ridgetop Woodland (10ar(i))*

Land Description	Item	Ecological Community	Species	Age Structure	Height [metres]	Spread [metres]	Condition	Ecological Integrity	Durability Ranking	Corridor Linkages	Existing Protection	Notes
Cheyne Walk - Residential Properties:												Survey Date: 8 Apr-12 Apr 2013
3 Cheyne Walk: front garden/ upper embankment	two trees	10ag(i)	Ac [2]	20-30+	9-10m	6-7m	good	5	low	restricted	T&BPO	native/ exotic garden; Ac [2]- possibly planted/ within mixed group cultivated generic natives [<i>Corymbia citriodora</i>].
3A Cheyne Walk: rear garden/ upper level adj. to bdy. No.16 Linden Way	single tree s/s outcrops	10ag(i)	Ac [1]	50-60+	12m	8m	good	5	low	restricted	T&BPO	native/ exotic garden; Ac [1]- some dead wood in crown; also immature Bs X1- likely cultivated; no access.
11 Cheyne Walk: front garden/ adj. to bdy. No.13 Cheyne Walk	tree group s/s outcrops	10ag(i)	Ac [1]	80-100+	12m	12m	fair	5	low	restricted	T&BPO	exotic garden/ terraced lawn; Ac [1]- old growth multi-trunk (2) spec./sparse crown/ dead wood; access denied.
rear garden/ steep upper slope & rock outcrops			Cgu [1] Ac [1]	80-100+ 50-60+	12m 12m	14m 8m	good good	varies: 4-5	low	fragmented		significant rock outcrops; significant remnant native tree group/ part of

upper slope/ adj. to bdy. No.13 Cheyne Walk			Ac [2+] Bs [1]	<5 40-50+	up to 3m 5m	up to 1.5m 6m	good/ regen. good					larger group [see No.16 Linden Way]; Cgu [1]- old growth multi-trunk spec.; natives [<i>Lomandra</i> , <i>Pteridium</i> spp.]; old multi-stemmed <i>Callistemon citrinus</i> [3m HT/ 5m diam.]/ possibly remnant native sp.; Bint/ cultivated origin; dom. exotics/ weeds; listings subject to site confirmation & boundary survey.
13 Cheyne Walk: front garden/ upper level adj. to bdy. No.11	single tree	10ag(i)	Ceg [1]	40-50+	3m	5m	good	5	low	restricted	T&BPO	exotic terraced garden; Ceg [1]- possibly cultivated.
15 Cheyne Walk: front garden/ upper level/ adj. to driveway	two trees	10ag(i)	Ac [1] Ac [1]	80-100+ 30-40+	5m 4m	3m 3m	lopped lopped/ good	5	low	restricted	T&BPO	exotic terraced garden; Ac [1]- old growth spec./ heavily lopped multi- stemmed regrowth/ remove <i>Hedera</i> sp. on trunk; 1 X dead stag/ possibly Era/ heavily lopped.
19 Cheyne Walk: rear garden/ upper level/ adj. to rear bdy. & easement	single tree	10ag(i)	Er [1]	20-30+	1m	0.5m	regrowth	5	low	isolated	T&BPO	very steep upper slope; Er [1]- lopped/ vigorous regrowth; recent clearing/ mulching; dom. exotics/ weeds [see listing for easement].
21 Cheyne Walk: front garden/ lower level adj. to front bdy.	single tree	10ag(i)	Esi [1]	30-40+	9m	14m	poor	5	low	fragmented	T&BPO	exotic terraced garden; Esi [1]- ext. crown die-back/ dead wood (30%).
25 Cheyne Walk: front garden/ embankment adj. to driveway	tree group	10ag(i)	Fru [2]	50-60+	3-4m	6-8m	lopped	5	low	restricted	T&BPO	exotic garden; Fru [2]- heavily lopped/ pollarded; weeds; no access.
rear garden/ upper bdy. adj. to right-of-way	remnant community		Ac [2] Er [1]	80-100+ 20-30+	12m 4m	12-15m 2m	good good					steep slope; Ac [2]- old growth specs./ some dead wood; Pu regrowth; dead standing trees/ stags; dom weeds [incl. <i>Cotoneaster</i> , <i>Cinnamomum</i> , <i>Lantana</i> spp.]; Ac listings subject to bdy. survey.
27 Cheyne Walk: rear garden/ upper level adj. to right-of-way	single tree remnant community	10ag(i)	Ceg [1]	20-30+	4m	2m	good	varies: 4-5 [mainly 5]	low	isolated	T&BPO	exotic garden/ steep slope; standing dead tree/ stag Ac X1; remnant natives [incl. <i>Calochlaena</i> , <i>Pteridium</i> spp.]; dom. weeds; no access.
Cheyne Walk - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 8 Apr-12 Apr 2013
public road verge: steep embankment & rock outcrops adj. to No.9 Cheyne Walk [opp. Beverley Blacklock Reserve signage]	s/s outcrops remnant community	10ag(i)	Er [1] Ceg [1] Cal [2] Ac	20-30+ ?15-20+ 10-15+ <5	3.5m 3m up to 2m <1.5m	2m 1m 2m <1m	lopped/ good lopped/ good lopped/ good good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	remnant native regrowth community/ no native canopy trees; Er/ Ceg/ Cal/ Ac saplings- possibly remnant native spp./ multi-stem regrowth; restoration planting/ successive overlays w. local & gen. natives [<i>Pittosporum revolutum</i>, <i>Banksia spinulosa</i>, <i>Hibbertia aspera</i>, <i>Pomaderris</i>, <i>Lomandra</i> spp./ unknown provenance] ; Pu regrowth; weeds.

road reserve/ island in vehicular turning area opp. No.13 Cheyne Walk [adj. Cheyne Walk Reserve]	single tree	10ag(i)	Cgu [1]	80-100+	10m	14m	see notes	5	low	contiguous	T&BPO	Cgu [1]- old growth spec./ past insect damage/ large basal cavity/ vigorous dense crown/ ext. pruning for o'head power-lines/ bitumen to base; local & generic native restoration planting with-in island bed [unknown provenance].
easement: between Nos. 17-19 Cheyne Walk/ upper steep slope	single tree remnant community	10ag(i)	Er [1]	30-40+	1.2m	0.5m	regrowth	varies: 4-5 [mainly 5]	low	isolated	T&BPO	very steep upper slope; Er [1]- lopped/ vigorous regrowth; remnant natives [<i>Pteridium</i> sp.] recent clearing/ dom. weeds [<i>Lantana</i> , <i>Lonicera</i> spp.].

Cheyne Walk - Public Reserves:

Survey Date: 8 Apr-12 Apr 2013

Cheyne Walk Reserve (Castlecrag Group - contiguous with Castlehaven Reserve & Extension and Beverley Blacklock Reserve)

Cheyne Walk Reserve is a major foreshore bushland reserve scheduled as SEPP 19: Bushland in Urban Areas (Public Open Space) in Willoughby City Bushland Plan of Management (2000).

Cheyne Walk Reserve listings are divided into **Areas A-B** [refer to aerial photos] as follows:

Area A(i): remnant bushland-upper to mid-slope adj. to walking track/ head [eastern side below Cheyne Walk cul-de-sac]	remnant community s/s outcrops s/s scarps	10ag(i)	Epip/ Ac Al/ Er Cal/ Had	up to 60-80+ up to 10-15+ up to 10-15+	up to 14-16m up to 3-5m up to 3-5m	varies varies varies	varies good/ regrowth good	varies: 4-5	low	fragmented	SEPP 19 /T&BPO SREP 23	significant s/s outcrops; highly disturbed & fragmented native canopy/ remnant understorey; regen./ mixed w. generic & local native planting/ restoration [incl. <i>Kunzea</i> , <i>Callicoma</i> , <i>Homalanthus</i> , <i>Lomandra</i> , <i>Dianella</i> , <i>Imperata</i> , <i>Pteris</i> , <i>Microlaena</i> spp.]; Cal/ Had-likely cultivated ; dom. weeds [incl. <i>Lantana</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Conyza</i> , <i>Lonicera</i> , <i>Ehrharta</i> spp.].
steep lower slope/ rock outcrops to inter-tidal area			Epip/ Ac Esi Al [dom.]/ Er	up to 60-80+ up to 10-15+ up to 10-15+	up to 12-14m up to 7-8m up to 3-5m	varies up to 7-8m varies	varies good good/ regrowth	varies: 3-5	medium-low	contiguous		canopy partially fragmented/ varying level of weeds [see above]; native understorey [<i>Xanthorrhoea</i> , <i>Grevillea</i> , <i>Dodonaea</i> , <i>Polyscias</i> , <i>Eustrephus</i> , <i>Smilax</i> , <i>Caustis</i> , <i>Entolasia</i> , <i>Gleichenia</i> , <i>Hypolepis</i> spp.]; Pu regrowth.

Note: Cheyne Walk Reserve - Area A(i) adjoins Castlehaven Reserve & Extension - Area C(v). For listings refer to The Scarp - Public Reserves.

												Survey Date: 22 Apr-26 Apr 2013
Area A(ii): remnant bushland-upper to mid-slope east of cul-de-sac to reserve steps opp. No.19 Cheyne Walk	remnant community s/s outcrops	10ag(i)	Epip/ Ac Pu [dom.] Er	up to 80-100+ up to 50-60+ up to 10-15+	up to 16-18m up to 9-10m up to 3-4m	varies varies 1-2m	good regrowth good/ regrowth	varies: 3-5 [mainly 5]	medium-low	fragmented	SEPP 19 /T&BPO SREP 23	significant s/s outcrops; highly modified/ fragmented native canopy/ understorey Pu regrowth; mesic shift/ poor native regen. [<i>Homalanthus</i> sp.]; area under bush restoration strategy; remnant natives [<i>Adiantum hispidulum</i> , <i>Smilax</i> , <i>Pteridium</i> , <i>Hypolepis</i> , <i>Calochlaena</i> spp.]; dom. weeds [<i>Lantana</i> , <i>Rumex</i> , <i>Lonicera</i> , <i>Tradescantia</i> , <i>Asparagus</i> , <i>Ageratina</i> , <i>Nephrolepis</i> spp.];
steep lower slope/ rock outcrops	s/s outcrops		Epip/ Ac	up to 80-100+	up to 12-16m	varies	good	varies: 2-5	high-low			significant s/s/ scarp & rock outcrops;

and scarp to inter-tidal area [immediately above HWM]	s/s scarps core bushland community		Xa	up to 60-80+	up to 1.5m	up to 2m	good					varying level of disturbance; high native biodiversity [<i>Xanthorrhoea arborea</i> , <i>Grevillea linearifolia</i> , <i>Acacia terminalis</i> , <i>Pultenaea daphnoides</i> , <i>Xanthosia pilosa</i> , <i>X. tridentata</i> , <i>Caustis</i> , <i>Epacris</i> , <i>Crowea</i> , <i>Lasiopetalum</i> , <i>Dianella</i> , <i>Gahnia</i> , <i>Lomandra</i> , <i>Cryptostylis</i> spp.]; varying level of weeds [see above].
Area A(iii): core bushland- upper slope/ east of reserve steps to open drainage line opp. No.11 Cheyne Walk [adjoining Beverley Blacklock Reserve]			Epip/ Ac Cgu/ Esi Al/ Er	up to 80-100+ up to 80-100+ up to 20-30+	up to 14-16m up to 12-16m up to 6-9m	varies varies up to 3-4m	good good good					varying level of disturbance, canopy fragmentation and modification; high biodiversity/ good regen.; old growth specimens; largely intact understorey [see above spp.]; varying level weeds/ high adj. to drainage line.
steep lower slope/ rock outcrops and scarp to inter-tidal area			Epip/ Ac Esi Al [dom.] Bs/ Ple	up to 80-100+ up to 80-100+ up to 20-30+ up to 60-80+	up to 8-14m up to 8-12m up to 4-6m up to 3-5m	varies varies varies varies	good good good good	varies: 1-3 [mainly 1-2]	high-medium	contiguous		significant rock outcrops/ lower scarp to inter-tidal rock platform; Esi/ Ac [co- doms.] on exposed point; high native biodiversity [<i>Persoonia levis</i> , <i>Banksia serrata</i> , <i>Xanthorrhoea arborea</i> , <i>Acacia terminalis</i> , <i>Epacris</i> , <i>Crowea</i> , <i>Caustis</i> spp.]; minimal weeds.
Area B(i): remnant bushland- upper to mid-slope north of open drainage line/ opp. Nos. 7, 9 & 11 Cheyne Walk [Beverley Blacklock Reserve]	remnant community s/s outcrops s/s scarps		Epip/ Ac Esi/ Cgu Al/ Er	up to 80-100+ up to 80-100+ up to 10-15+	up to 8-14m up to 8-12m up to 3-4m	varies varies 1-2m	good good good/ regrowth	varies: 2-5	high-low	fragmented		significant s/s scarp & rock formations; varying level of canopy fragmentation/ disturbance, multiple-tracking & weed invasion; dead standing trees [stags]; disturbed native understorey [incl. <i>Xanthorrhoea</i> , <i>Crowea</i> , <i>Pteridium</i> spp.]; Pu regrowth; restoration planting/ overlay [<i>Acacia terminalis</i> , <i>Grevillea</i> , <i>Pomaderris</i> , <i>Imperata</i> spp./ unknown provenance]; dom. weeds [<i>Senna</i> , <i>Cortaderia</i> , <i>Cotoneaster</i> spp.].
steep lower slope/ rock outcrops and scarp to inter-tidal area [immediately above HWM]			Epip/Ac/Esi Al/ Er	up to 80-100+ up to 10-15+	up to 8-14m up to 3-4m	varies 1-2m	good/ regrowth	varies: 2-3	high-medium			
Area B(ii): remnant bushland- northern portion of reserve/ opp. No.5 and adj. to rear bdy. Nos. 4, 6 & 8 Cheyne Walk			Epip/ Ac Esi Fru	up to 80-100+ up to 40-50+ up to 50-60+	up to 14-16m up to 12-14m up to 6m	varies varies up to 10m	good varies good	5	low			significant s/s/ scarp & rock outcrops; highly fragmented/ disturbed; canopy mostly cleared; Pu regrowth; remnant natives [<i>Pteridium</i> sp.]; <i>Cyathea</i> sp./ cultivated origin; dom. exotics/ weeds [incl. <i>Lantana</i> , <i>Cotoneaster</i> , <i>Ageratina</i> , <i>Senna</i> , <i>Nephrolepis</i> spp.]/ weed thicket [dom.] on steeper slopes.
Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-17] (<i>Lehany & Walker for WCC, 1997</i>) .												
												Survey Date: 11 Nov-15 Nov 2013
Area B(iii): remnant bushland-	s/s scarp	10ag(i)	Fru [1]	60-80+	9m	12m	fair	varies: 4-5	low	restricted	adj.SEPP 19	significant s/s scarp & rock outcrops;

drainage reserve/ upper scarp & rock outcrops between No.2 Linden Way & rear bdy. Nos. 2 & 4 Cheyne Walk	s/s outcrops tree group remnant community							[mainly 5]				/T&BPO	Fru [1]/ fair- on upper scarp/ some dead wood/ competition w. exotics [<i>Koelreuteria</i> sp.]; remnant natives [<i>Histiopteris</i> sp.]; Pu regrowth; dom. weeds; listings subject to bdy. survey.	
lower foreshore/ rock outcrops below drainage reserve			Casg [2] Bint [1]	30-40+ 20-30+	5-6m 8m	3-6m 7m	good/ lopped good						Casg [2]- <i>Casuarina glauca</i> assoc.w. foreshore/ rock outcrops; Bint [1]- possibly cultivated origin;	
upper scarp adj. to rear bdy. No.4 Cheyne Walk			Ac [1] Ac [1] Er [1]	60-80+ 40-50+ ?40-50+	14m 12m 0.5m	6m 7m 0.5m	see notes good lopped						ext. clearing/ herbicidal treatment; Ac [1]/ see notes- large basal cavity/ insect damage w. dense new growth; Er [1]- lopped to base/ dense regrowth; listings subject to bdy. survey; weeds. <i>Casuarina glauca</i> group- ext. lopping/ coppicing & vigorous resprouting along lower foreshore; Pu regrowth.	
lower scarp/ rock outcrops to foreshore			Casg [2] Casg [1] Casg	60-80+ ?60-80+ <5	5-6m <0.5m <1m	4-8m <0.5m <1m	good/ lopped lopped good/ regen.							
Eastern Valley Way - Residential Properties:													Survey Date: 14 Dec-18 Dec 2009	
85 Eastern Valley Way: front garden/ adj. to front bdy. & bdy. to No.83.	single tree	10ag(i)	Fru [1]	80-100+	9m	10m	good	5	low	isolated	T&BPO	exotic garden/ courtyard; Fru [1]- old growth spec./ 1500mm diam. base/ some dead wood; weeds.		
97 Eastern Valley Way: front garden/ upper embankment adj. to front bdy.	single tree	10ar(i)/ 10ag(i)	Ka [1]	?30-40+	3m	4m	v.poor	5	low	isolated	T&BPO	exotic garden/ highly modified; Ka [1]- lopped/ ext. die-back (90%); weeds; no native regen. evident.		
99 Eastern Valley Way: front garden/ adj. to bdy. No.97	single tree	10ag(i)/ 6b	Es [1]	60-80+	15m	25m	good	5	low	isolated	T&BPO	exotic garden/ highly modified; Es [1]/ <i>Eucalyptus saligna</i> - large specimen/ 900mm diam. base; possibly old growth specimen/ remnant outlier of BGHF assoc.w. shale/ sandstone transition or possibly cultivated origin; some dead wood in crown.		
Edinburgh Road - Residential Properties:													Survey Date: 16 Jan-10 Jan 2014	
111 Edinburgh Rd: front garden/ lawn area	single tree	10ar(i)	Era [1]	30-40+	10m	7m	good	5	low	isolated	T&BPO	exotic garden; Era [1]- in lawn area/ possibly cultivated origin; also generic native planting [<i>Corymbia citriodora</i>].		
117 Edinburgh Rd: rear garden/ adj. to rear bdy. to No.1 Charles Street	single tree	10ar(i)	Ac [1]	50-60+	9m	9m	good	5	low	isolated	T&BPO	exotic garden; recent subdivision/ new residence; Ac [1]- some dead wood; possibly planted; also generic natives [<i>E. sideroxylon</i>]; no access.		
119 Edinburgh Rd: rear garden/ adj. to rear bdy. to No.1 Charles Street	single tree	10ar(i)	Ac [1]	50-60+	14m	7m	fair	5	low	isolated	T&BPO	exotic garden; recent subdivision/ new residence; Ac [1]/ fair- multi-trunk (2)/ ext. dead wood w. new growth/ possibly planted; no access.		

												Survey Date: 14 Dec-18 Dec 2009
136 Edinburgh Rd: front garden/ circular planting bed in lawn	single tree	10ar(i)	Sg [1]	60-80+	7m	9m	good	5	low	isolated	T&BPO	Griffin designed sandstone house/ cultural heritage [Inter-war period]; Sg [1]/ <i>Syncarpia glomulifera</i> -possibly remnant outlier of BGHF/ assoc.w. shale/ sandstone transition or possibly cultivated specimen [see listing for 99 Eastern Valley Way].
140 Edinburgh Rd: rear garden/ lawn adj. to rear bdy. [Corteille Reserve]	single tree	10ar(i)	Ac [1]	80-100+	9m	9m	good	5	low	isolated	T&BPO	exotic garden; Ac [1]- old growth spec./ highly sculptural form w. distinctive knotted branching pattern.
<i>For odd numbers 167-299 Edinburgh Road [incl. Castlecrag Escarpment] refer to listings following 258 Edinburgh Road.</i>												
												Survey Date: 25 Jan-29 Jan 2010
184 Edinburgh Road: St James Church/ planter adj. to church	tree group s/s outcrops	10ar(i)	Eha [1]	40-50+	9m	8m	good	5	low	restricted	T&BPO	significant remnant native tree group/ Eha [1]- planter/ some dead wood.
gardens adj. to church			Gf [1] Er [2]	15-20+ 15-20+	7m 8m	2m 2-3m	good/ regrowth good					significant rock outcrops/ mulched garden beds.
Castlecrag Montessori School mulched gardens/ upper slope			Eha [1] Cgu [1] Cgu [1] Bs [1] Gf [1]	30-40+ 60-80+ 40-50+ 15-20+ 15-20+	9m 9m 9m 3m 6m	8m 12m 6m 2m 4m	poor good good good good/ regrowth					Eha [1]/ poor- ext. die-back (50%). Cgu X2- possibly single tree; Bs [1]- possibly planted; Pu regrowth; Al X1- see public verge listing [below].
Castlecrag Montessori School grounds/ lower slope adj. to school [incl. timber decking & fenced playground area]			Eha [1] Epip [2] Epip [1] Ac [1]	80-100+ 40-50+ 40-50+ 5-10+	9m 12m 10m 4m	22m 10-12m 6m 1m	fair good fair good					Eha[1]/ adj. to steps- old growth spec./ multi-trunk (3No.)/ ext. dead wood & sparse canopy; Epip [1]/ fair- ext dead wood/ decline; no native regen./ or g/covers evident; weeds [<i>Acetosa</i> sp.].
190 Edinburgh Rd: front garden/ upper eastern rock outcrops adj. to The Citadel [frontage]	two trees s/s outcrops	10ar(i)	Eha [1] Ceg [1]	80-100+ 60-80+	9m 8m	15m 3m	fair good/ lopped	5	low	isolated	T&BPO	terraced exotic garden; significant s/s outcrops; Eha [1]- multi-trunk (3No.) old growth spec./ heavily lopped/ ext. dead wood & epicormic growth; gen. native planting [<i>Eucs./Corymbia</i> spp.].
												Survey Date: 20 Dec-24 Dec 2010
192 Edinburgh Rd: rear garden/ rock shelf adj. to reserve bdy. [Tower Reserve]	s/s outcrops	10ar(i)						5	low	restricted	adj.SEPP 19 /T&BPO	exotic garden; significant s/s outcrops; no remnant natives evident; no access.
<i>Note: Rock shelf/ pavement is contiguous with the Castle Rock formations in Tower Reserve. Refer to The Citadel - Public Reserves.</i>												
												Survey Date: 1 Nov-5 Nov 2010
196 Edinburgh Rd: rear garden/ rock outcrops adj. to reserve bdy. [Tower Reserve]	s/s outcrops remnant community	10ar(i)	Ka [5+] Crho [2+] Al Pu	up to 10-15+ up to 10-15+ up to 10-15+ up to 10-15+	up to 3m up to 3-4m up to 3-4m up to 3-4m	varies varies varies varies	good good good good/ regrowth	varies: 3-5 [mainly 5]	medium-low	contiguous	adj.SEPP 19 /T&BPO	significant rock outcrops/ formations; exotic garden/ listings subject to bdy. survey; significant remnant native community/ group [incl. <i>Allocasuarina</i> ,

			Al/ Be/ Fru	<5	<1m	<0.5m	good/ regen.					<i>Kunzea, Callitris, Banksia, Dianella, Hypolepis</i> spp.]; dom. exotics/ weeds [incl. <i>Strelitzia, Asparagus, Genista</i> spp.]; no access.
Note: Rock outcrops/ formations are contiguous with the Castle Rock formations in Tower Reserve. Refer to The Citadel - Public Reserves.												
198 Edinburgh Rd: rear garden/ rock outcrops adj. to reserve bdy. [Tower Reserve]	s/s outcrops single tree remnant community	10ar(i)	Cgu [1] Al [2] Er [1] Crho [1]	60-80+ 10-15+ 10-15+ 30-40+	12m 5-6m 5m 7m	14m 2-3m 2m 3m	good good good good	varies: 3-5 [mainly 5]	medium-low	contiguous	adj.SEPP 19 /T&BPO	significant rock outcrops/ formations; exotic garden/ listings subject to bdy. survey; remnant native community [<i>Allocasuarina, Elaeocarpus, Callitris, Dianella, Calochlaena</i> spp.]; Pu/ Fru regrowth; weeds [<i>Ligustrum</i> sp.]; no access.
Note: Rock outcrops/ formations are contiguous with the Castle Rock formations in Tower Reserve. Refer to The Citadel - Public Reserves.												
												Survey Date: 20 Dec-24 Dec 2010
208 Edinburgh Rd: front garden/ lawn area	single tree	10ar(i)	Ac [1]	60-80+	8m	12m	see notes	5	low	restricted	T&BPO	exotic garden/ lawn; Ac [1]- damaged trunk & cavity/ext.dead wood in crown/ vigorous epicormic growth.
214 Edinburgh Rd: front garden/ adj. to pathway	two trees	10ar(i)	Ac [1] Cgu [1]	30-40+ 60-80+	8m 9m	8m 12m	good good	5	low	restricted	T&BPO	exotic garden/ lawn; Bs X1- on grass verge- planted; no access.
218 Edinburgh Rd: front garden/ adj. to front bdy. wall & verge	single tree	10ar(i)	Ac [1] Ac [2] Bint [1]	30-40+ <5 20-30+	10m <1m 6m	10m <1m 7m	good good/ regen. good	5	low	restricted	T&BPO	exotic garden/ lawn; Ac [1]- possibly planted; Ac regen.; generic native planting/ Bint [1]- likely cultivated.
220 Edinburgh Rd: rear garden/ upper scarp adj. to rear bdy. [easement]	single tree s/s outcrops s/s scarp	10ar(i)	Ac [1]	20-30+	7m	6m	good	5	low	restricted	T&BPO	exotic garden; significant s/s scarp & rock outcrops; easement/ subject to bdy.survey; Pu regrowth; dom.weeds.
224 Edinburgh Rd: rear garden/ upper scarp adj. to rear bdy. [easement]	two trees s/s outcrops s/s scarp	10ar(i)	Ac [1] Er [1]	?60-80+ 10-15+	6m 2m	9m 3m	good good	5	low	restricted	T&BPO	exotic garden; significant s/s scarp & rock outcrops; easement/ subject to bdy.survey; Ac[1]-possibly old growth spec.; Pu regrowth; cultivated ferns [<i>Dicksonia, Pteris</i> spp.]; dom.weeds [<i>Nephrolepis, Tradescantia</i> spp.]; no access.
230 Edinburgh Rd: rear garden/ adj. to bdy. No.232 Edinburgh Rd	single tree	10ar(i)	Epip [1]	40-50+	8m	14m	good/ lopped	5	low	restricted	T&BPO	exotic garden/ lawn; Epip [1]- some pruning; no access.
236 Edinburgh Rd: rear garden/ adj. to bdy. No.234 Edinburgh Rd	single tree	10ar(i)	Ac [1]	15-20+	9m	6m	good	5	low	restricted	T&BPO	exotic garden; Ac [1]- possibly planted; no access.
244 Edinburgh Rd: rear garden/ lower slope	tree group remnant community	10ar(i)	Ac [1] Ac [1] Cgu [1] Ac [1] Al [1] Ac [1]	60-80+ 50-60+ 40-50+ 20-30+ 10-15+ <5	9m 8m 7m 8m 6m 1m	12m 7m 4m 8m 5m 0.5m	fair good fair good good good/ regen.	varies: 3-5 [mainly 5]	low	restricted	T&BPO	terraced exotic garden; significant remnant native group; fragmented/ modified; Ac [1]/ fair- ext. dead wood/ vigorous epicormic growth; Cgu [1]/ fair- dead wood/ decline; remnant native understorey [incl. <i>Phebalium squamulosum</i> (old spec.), <i>Podocarpus spinulosus, Pteridium, Lomandra,</i>

												<i>Dianella, Smilax</i> spp.]; Pu/ <i>Acacia parramattensis</i> regrowth; gen. native planting [<i>Callistemon</i> sp.]/ <i>Corymbia citriodora</i> (self-sown/ cultivated origin); dom. weeds [<i>Nephrolepis, Pavonia, Ehrharta</i> spp.].
												Survey Date: 12 Dec-16 Dec 2011
258 Edinburgh Rd: rear garden/ adj. to bdy. & garage No.260 Edinburgh Rd	single tree	10ag(i)	Ac [1]	80-100+	15m	15m	fair	5	low	restricted	T&BPO	exotic garden; Ac [1]- old growth multi-trunk spec./ heavily pruned w. cavities & dead wood/ new epicormic growth; no access onto property.
<i>For even numbers 276-292 Edinburgh Road refer to listings following 299 Edinburgh Road.</i>												
167 Edinburgh Road: INCOMPLETE DATA												
												Survey Date: 16 Dec-20 Dec 2013
173 Edinburgh Rd (171-173 Edinburgh Rd): front garden	single tree s/s outcrops	10ar(i)	Era [1] Ac [2] Epip [1] Epip [1] Al/ Ceg	60-80+ 15-20+ 20-30+ 20-30+ up to 5-10+	9m 12m 12m 12m up to 4-6m	15m 6m 8m 4m up to 2-3m	fair good good poor good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic/ native garden adj. to bushland reserve; Era [1]- adj. to front bdy./ ext. dead wood (20%)/ new growth; gen. & local native planting/ landscaping [Epip X 2, Ac X 2, Al/ Ceg- all likely planted/ unknown provenance]; also <i>Syzygium/ Acacia</i> spp.].
rear garden: central & lower walled courtyards								5				
rock outcrops adj. to northern bdy. to bushland reserve [Castlecrag Escarpment]	tree group s/s outcrops		Ac [1] Bs [1]	15-20+ ?60-80+	12m 5m	4m 7m	good good	varies: 3-5	medium-low	fragmented		significant rock outcrops/ overhang; subject to bdy. survey; Ac [1]- adj. to house; Bs [1]- possibly old growth/ multi-trunk spec. on rock outcrops; <i>Xanthorrhoea</i> sp.; Ac [1]- lower NE bdy./ part of larger contiguous group.
lower NE bdy. adj. to NSW (State) land/ bushland reserve			Ac [1]	20-30+	12m	5m	good			contiguous		
177 Edinburgh Rd: front garden/ paved courtyards & rock outcrops adj. to bdy. No.173	tree group s/s outcrops	10ar(i)	Ac [1] Ac [1] Ac [1] Cgu [1]	50-60+ 50-60+ 30-40+ 60-80+	8m 14m 14m 12m	6m 9m 7m 14m	see notes good good poor	5	low	restricted	T&BPO	exotic/ native garden; Ac [1]- leaning trunk/adj. to driveway; owner confirmed s/s house/ courtyards built in 1993; Ac X2- some dead wood; Cgu [1]- ext. dead wood/ new growth; significant remnant native tree group; gen. native planting [Bint]; Pu regrowth.
rear garden/ paved courtyard adj. to (State) land/ reserve [Castlecrag Escarpment]	s/s scarp remnant community		Ac [1] Al [1]	60-80+ 20-30+	15m 5m	15m 4m	good good	varies: 3-5	medium-low	fragmented		Ac [1]- on bdy. to right-of-way; Al [1]- adj. to bdy.No.173; significant s/s scarp & rock outcrops adj. to rear bdy.NSW (State) land/ bushland reserve [see listing]; owner confirmed bdy; remnant

For NSW (State) land/ bushland reserve adjoining rear boundary No.177 Edinburgh Road refer to Edinburgh Road - Public Reserves Castlecrag Escarpment (Area A(ii)). For NSW (State) land/ right-of-way listings along eastern boundary refer to Edinburgh Road - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												natives [<i>Pteridium</i> sp.]; recommend property listing as: adj. SEPP19.
183 Edinburgh Rd: front garden/ upper rock outcrops [tor]/ road cutting adj. to verge	single tree s/s cutting s/s outcrops remnant community	10ar(i)	Cgu [1] Ac [1]/ Er [1]	?60-80+ <5	9m <0.5m	8m <0.5m	good regen.	varies: 2-5 [upper 2]	high-low	restricted	T&BPO	exotic/ native garden; significant rock outcrops/ road cutting; remnant tor/ contiguous w. Nos.185-187 Edinburgh Road [see listings]; originally part of Tower Reserve rock formations before post-war period roadworks [owner]; s/s cottage built into rock formation; Cgu [1]- possibly old growth spec./on top of rock outcrops assoc.w. remnant natives [<i>Acacia suaveolens</i> , <i>Dianella revoluta</i> , <i>Lomandra longifolia</i>].
lower rock outcrops/ planter adj. to right-of-way & driveway [adj. to front verge]			Cal/ Al/ Crho Ac [1]	up to 5-10+ 10-15+	up to 5m 8m	varies 6m	lopped good	5	low			mixed local & gen.native planting [incl. Ac/ Cal/ Al, Bint, <i>Callitris</i> , <i>Dodonaea</i> , <i>Hakea</i> spp.-all likely planted]; highly modified; Pu regrowth; dom. weeds
rear garden/ lower slope & rock outcrops [adj. to NSW (State) land/ reserve] [Castlecrag Escarpment]			Fru [1] Ac [1]	30-40+ ?60-80+	5m 14m	6m 6m	good v.poor	varies: 4-5 [mainly 5]				Fru [1]- adj. to bdy. No.185; Ac [1]- on lower slope adj. to right-of-way/ ext. dead wood/ crown die-back (90%)/ epicormic regrowth; largely cleared/ highly modified; some remnant natives [incl. <i>Lomandra</i> , <i>Pteridium</i> spp.]; Pu regrowth; dom. weeds.
185 Edinburgh Rd: front garden/ rock outcrops [tor]/ road cuting adj. to front verge	s/s cutting s/s outcrops	10ar(i)						5	low	isolated	T&BPO	exotic garden; significant rock outcrops road cutting; remnant tor/ contiguous w Nos.183 & 187 Edinburgh Rd [see listings]; no remnant natives/ regen.; <i>Lomandra/ Dianella</i> spp. - all planted.
187 Edinburgh Rd: front garden/ rock outcrops [tor]/ road cutting adj. to front verge	s/s cutting s/s outcrops remnant community	10ar(i)	Ka [1]	?20-30+	1m	1m	good	varies: 4-5 [mainly 5]	low	isolated	T&BPO	exotic garden; significant rock outcrops road cutting/ tor & overhang contiguous w. Nos.185 & 183 Edinburgh Rd [see listings]; Ka [1]- on upper rock outcrop stunted spec./ remnant native regen.; gen. native planting [<i>Melaleuca</i> sp.].
191 Edinburgh Rd: front garden/ upper level adj. to driveway & rear bdy. to No.193	tree group s/s outcrops	10ar(i)/ 10ag(i)	Ac [1]	10-15+	8m	3m	good	5	low	restricted	adj.SEPP 19 /T&BPO	exotic/ native garden; Ac [1]- possibly planted; generic native planting [incl. <i>Eucalyptus microcorys</i> / Bint].
rear garden/ rock outcrops adj. to house above pool deck			Ac [1]	80-100+	12m	15m	good					Ac [1]- old growth spec./ some dead wood; Ac [1]/ poor- ext. dead wood/ adventitious growth/ competition w.
adj. to lower bdy. to reserve			Ac [1]	50-60+	10m	6m	poor					<i>Phoenix</i> sp. [part of larger Ac/ Era tree

												group on reserve - see listing].
For 201 Edinburgh Road [WCC land - vacant block] refer to Edinburgh Road - Public Reserves Castlecrag Escarpment (Area A(v)).												
205 Edinburgh Rd: front garden/ upper level	two trees s/s outcrops	10ar(i)/ 10ag(i)	Ac [1] Ac [5+]	80-100+ <5	14m <1.5m	15m <1m	good good/ regen	5	low	isolated	adj.SEPP 19 /T&BPO SREP 23	exotic terraced garden/inter-war period house; Ac [1]- old growth spec./ some dead wood; Ac good regen; no access.
rear garden/ upper scarp & lower scarp [overhang]	s/s scarp remnant community		Fru [1]	20-30+	4m	7m	good					significant s/s scarp & rock outcrops; Fru [1]- multi-stemmed/ upper scarp; remnant native ferns assoc. w. lower scarp/ overhang [incl. <i>Todea barbara</i> , <i>Gleichenia</i> , <i>Histiopteris</i> spp.]; dom. weeds [<i>Lantana</i> , <i>Ochna</i> spp.]; Era/ Ac [remnant native trees] on lower slope located within reserve [NSW land].
Note: NSW (State) land between rear bdy. and foreshore should be scheduled as SEPP 19: Bushland in Urban Areas.												
207 Edinburgh Rd: rear garden/ upper terraces & rock outcrops	s/s outcrops tree group	10ar(i)/ 10ag(i)	Ceg [1] Ka/ Er	up to 60-80+ up to 20-30+	3m up to 4-6m	3m up to 4m	regrowth good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO SREP 23	large narrow block [Edinburgh Rd to foreshore]; significant s/s scarps & rock outcrops; old upper garden terraces cleared/ highly modified; Ceg [1]-multi- stemmed regrowth; remnant natives [<i>Kunzea</i> , <i>Pteridium</i> (dom.)]; weeds [<i>Asparagus</i> sp.].
very steep slope/ mid-slope & rock outcrops [adj. to steps]	s/s scarps s/s outcrops remnant community		Ac/ Fru Ceg/ Al/ Er	varies varies	varies varies	varies varies	regen. good/ regen.	varies: 2-5	high-low	fragmented		highly fragmented/ disturbed bushland; remnant native trees; Pu regrowth; dom. weeds [<i>Lantana</i> , <i>Asparagus</i> , <i>Ochna</i> , <i>Rumex</i> spp.]; current weed management/ regen. strategy; prep. for controlled broad area burn.
mid- to lower steep slope/ scarps & rock outcrops [adj. to steps]	core bushland community		Ac [dom.] Al [dom.] Ceg/ Al/ Er Xa	up to 80-100+ up to 20-30+ varies up to 80-100+	up to 16-22m up to 9-10m varies up to 2m	up to 22m up to 7m varies up to 2m	good good good/ regen. good	varies: 1-5 [mainly 1-2]	high-low	contiguous		core bushland/ high biodiversity mid- to lower steep slope [<i>Xanthorrhoea</i> (incl. old growth specs.), <i>Pomaderris</i> , <i>Polyscias</i> , <i>Gahnia</i> , <i>Lepyrodia</i> , <i>Smilax</i> , <i>Schoenus</i> , <i>Lomatia</i> , <i>Lepidosperma</i> , <i>Patersonia</i> , <i>Xanthosia</i> , <i>Entolasia</i> , <i>Themeda</i> , <i>Calochlaena</i> , <i>Lomandra</i> <i>Dianella</i> spp.]; varying level of weeds [<i>Lantana</i> , <i>Asparagus</i> , <i>Genista</i> spp.].
lower foreshores/ rock outcrops adj. to cottage & tidal pool			Casg/ Fru	up to 30-40+	up to 10-12m	varies	good					
209 Edinburgh Rd: front garden/ upper level adj. to front bdy. & driveway No.207 Edinburgh Rd	tree group s/s outcrops	10ar(i)/ 10ag(i)	Era [1]	80-100+	16m	10m	fair	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic/ native garden; significant rock outcrops; Era [1]/ fair- old growth spec. dead wood w. vigorous new growth; Era [1]/ fair- v. old growth spec./ ext. dead wood w. new vigorous growth/ recommend arborist inspection; gen./ local native planting [incl. <i>Eucalyptus</i>
lower front garden/ rock outcrops adj. to steps			Era [1] Ac [1]	?100-150+ 40-50+	22m 15m	20m 7m	see notes good					

													botryoides, Callitris, Hakea, Acmena spp.]/ native g/covers [Oplismenus, Microlaena, Dianella spp.]; exotics/ weeds [incl. Cinnamomum sp.]; Pu regrowth; owner confirmed eradication of former Phyllostachys sp./ thicket; current restoration strategy; property bdy. adj. to reserve confirmed.
For NSW (State) land/ bushland reserve adjoining rear boundary [incl. Aboriginal Archaeological Site] see Edinburgh Road - Public Reserves Castlecrag Escarpment (Area B (i)).													
211 Edinburgh Rd: rear garden/ lower scarp	single tree s/s scarp s/s outcrops	10ag(i)	Ac [1]	50-60+	18m	12m	good	5	low	restricted	adj.SEPP 19 /T&BPO	terraced exotic garden; Ac [1]- some insect damage & dead wood; mixed local native planting; Pu regrowth.	
215 Edinburgh Rd: front garden	tree group	10ar(i)/ 10ag(i)	Ac [3]	5-10+	4-5m	2-3m	good	5	low	restricted	adj.SEPP 19 /T&BPO	terraced exotic/ native garden; Ac X6-likely planted ; mixed local & generic native planting [incl. Casuarina sp.]; dom. weeds; subject to bdy. survey.	
rear garden/ lower scarp to conc. bdy. wall	s/s scarp s/s outcrops		Ac [3]	up to 10-15+	5-8m	3-6m	varies						
217 Edinburgh Rd: rear garden/ upper scarp/ rock outcrops [east bdy.] adj. to house	tree group s/s scarp s/s outcrops	10ar(i)/ 10ag(i)	Ac [1] Ac [1]	?100-150+ 80-100+	16m 14m	18m 16m	good fair	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic/ native garden; significant s/s scarp/ rock outcrops & remnant native [Ac] tree group incl. old growth specs.; Ac [1]/ fair- ext. dead wood/ new growth/competition w.exotics; remnant native g/covers [Hypolepis, Dianella, Entolasia spp.]; gen. native planting [incl. Corymbia citriodora/ Angophora floribunda]; dom. weeds [Lantana. Cinnamomum, Phyllostachys, Senna, Nephrolepis spp.]; listings subject to bdy. survey.	
rock outcrops/ lower garden adj. to reserve & lower east bdy.	remnant community		Ac [1]	60-80+	16m	16m	good						
lower garden/ adj. to west bdy. & rear bdy. to reserve			Ac [1] Ac [1] Fru [2] Ceg [1]	40-50+ 15-20+ up to 15-20+ ?30-40+	15m 12m 3-4m 3m	9m 4m 3-6m 3m	good good good lopped/ regrowth						
219 Edinburgh Rd: rear garden/ upper scarp/ lawn area	single tree s/s scarp s/s outcrops	10ar(i)	Ac [1]	?100-150+	16m	14m	good	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic garden; significant s/s scarp & rock outcrops; Ac [1]- old growth spec./ on upper lawn.	
223 Edinburgh Rd: front garden/ upper level [west bdy.]	tree group s/s outcrops	10ar(i)	Ac [1]	50-60+	15m	9m	good	5	low	restricted	T&BPO	exotic garden; significant rock outcrops; Ac [1]- adj. to carport & house/ multi-trunked spec.; no access. Era [1]- old growth multi-trunk (2) spec. on upper tarrace adj. to house; Ac [1]/ see notes- large cavity/ recommend arborist inspection; Ac [1]- some dead wood; Xanthorrhoea sp.- planted.	
rear garden/ lawn & upper pool terrace			Era [1] Ac [1]	?100-150+ 60-80+	16m 15m	16m 12m	good see notes						
adj. to west bdy./ No.219 Edinburgh Rd			Ac [1]	50-60+	15m	9m	good						
233A Edinburgh Rd: vacant building site/ upper slope adj. to rear bdy. No.239 Edinburgh Rd	tree group s/s outcrops	10ar(i)/ 10ag(i)	Ac [1] Ac [3] Ac [2] Al [6+]/ Er [1]	80-100+ 60-80+ 10-15+ up to 15-20+	14m up to 16-18m 9m up to 8-12m	14m up to 8-12m 2-3m varies	good good good good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	past clearing/ disturbance; significant remnant native tree [Ac] group; dom. weeds/ thicket [Phyllostachys, Lantana, Ligustrum, Asparagus, Ochna, Araujia,	

												<i>Rumex</i> sp.]; Pu regrowth; current weed management/ regen. strategy.
lower slope/ above scarp upper bdy. to Hay property [233 Edinburgh Rd]	remnant community		Epip [1] Ka Al [dom.]	80-100+ up to 10-15+ up to 5-10+	16m up to 4m up to 7-8m	16m varies varies	good good/ regen. good/ regen.	varies: 2-5				Epip [1]- old growth multi-trunk (2) spec.; varying level of disturbance/ weeds; remnant natives/ good regen.; in NW cnr.[<i>Acacia ulicifolia</i> , <i>Grevillea linearifolia</i> , <i>Ozothamnus</i> , <i>Lambertia</i> , <i>Lepidosperma</i> , <i>Xanthosia</i> , <i>Lomandra</i> , <i>Entolasia</i> , <i>Pteridium</i> , <i>Lomandra</i> spp.]; listings subject to bdy. survey.
233 Edinburgh Rd: upper slope adj. to "grand staircase"	s/s scarp s/s outcrops	10ag(i)	Ac [dom.] Al [dom.] Ceg/ Al/ Er Bs/ Xa	up to 80-100+ up to 20-30+ varies up to 80-100+	up to 18-25m up to 9-10m varies varies	up to 22m up to 7m varies varies	good good good/ regen. good	varies: 1-5 [mainly 1-2]	high-low	contiguous	adj.SEPP 19 /T&BPO SREP 23	varying level of weeds/ upper bdy. weed thicket [<i>Phyllostachys</i> sp.];
mid- to lower steep slope/ scarps & rock outcrops [adj. to old s/s steps]	core bushland community											grading to core bushland/ high bio-diversity on mid- to lower slope [incl. <i>Pomaderris</i> , <i>Phebalium</i> , <i>Notelaea</i> , <i>Leucopogon</i> , <i>Polyscias</i> , <i>Breynia</i> , <i>Xanthorrhoea</i> , <i>Grevillea</i> , <i>Actinotus</i> , <i>Lepyrodia</i> , <i>Chordifex</i> , <i>Schoenus</i> , <i>Lepidosperma</i> , <i>Gahnia</i> , <i>Themeda</i> , <i>Pteridium</i> , <i>Calochlaena</i> , <i>Lomandra</i> , <i>Xanthosia</i> , <i>Anisopogon</i> , <i>Entolasia</i> , <i>Smilax</i> , <i>Dianella</i> spp.]; Pu regrowth; weeds/ current bush regen. strategy; subject to bdy. survey [see listing for adjoining WCC land].
lower foreshores/ rock outcrops adj. to cottages & terraced lawns			Casg/ Fru	up to 50-60+	varies	varies	good	varies: 3-5	medium-low	fragmented		
239 Edinburgh Rd: front garden/ between circular driveway & front bdy. to verge	tree group s/s outcrops	10ar(i)	Ac [1] Ac [2] Esi [1] Cgu [1]	60-80+ 30-40+ 15-20+ 60-80+	12m 9-12m 8m 12m	10m 4-5m 6m 7m	good fair/ good good see notes	5	low	restricted	T&BPO	exotic garden; significant remnant native tree group; no remnant native g/covers; Ac [1]/ fair- dead wood/ new growth; Cgu [1]- large basal cavity/ competition w. <i>Agonis</i> sp./ vigorous new growth; Pu regrowth.
rear garden/ below rock wall adj. to access track on 233A Edinburgh Rd			Ac [1]	50-60+	16m	12m	good					Ac [1]- some dead wood; dom. weeds subject to bdy. survey [see listing for 233A Edinburgh Rd].
241 Edinburgh Rd: front garden/ adj. to bdy. No.245 Edinburgh Rd adj. to driveway	tree group s/s outcrops	10ar(i)/ 10ag(i)	Ac [1] Ac [1] Ceg [1]	80-100+ 80-100+ ?20-30+	16m 18m 3m	14m 16m 1m	good good good/ regrowth	5	low	fragmented	T&BPO	exotic/ native garden; Ac X 2- old growth specs./ some dead wood; gen. native planting [<i>Eucalyptus globulus</i> , <i>Lomandra</i> sp.]; Pu regrowth.
rear garden/ upper rock outcrops within cantilevered deck [over]			Ac [1] Ac [1] Ac [1]	?100-150+ ?100-150+ 20-30+	25m 25m 10m	25m 12m 4m	good good good			restricted		Ac X2- outstanding scale/ old growth/ multi-trunk spec. retained within new building envelope; also planted natives [Eha/ immature]; no access.

lower terraced garden adj. to reserve													cleared/ highly modified; mulched for restoration planting; adj. to "grand staircase" / s/s steps access to reserve; Pu regrowth.
Note: NSW (State) land between rear bdy. and foreshore should be scheduled as SEPP 19: Bushland in Urban Areas.													
245 Edinburgh Rd: front garden/ upper level adj. to bdy. No.241 Edinburgh Rd	single tree	10ar(i)/ 10ag(i)	Ac [1]	15-20+	7m	6m	good	5	low	restricted	T&BPO	exotic/ native garden; Ac [1]- possibly seeded from Acx1 in adj. property No.241 [see above]; no access.	
rear garden/ lower bdy. to reserve	s/s outcrops s/s scarp		Ac/ Ka/ Cal	up to 5-10+	up to 3-4m	varies	good					significant rock outcrops & s/s scarp [bdy.]/ old s/s steps to reserve; highly modified; gen. & local native planting [Bint, Ahis, Ac, Ka, Cal, Acacia spp./ all likely planted].	
Note: NSW (State) land between rear bdy. and foreshore should be scheduled as SEPP 19: Bushland in Urban Areas.													
249 Edinburgh Rd: front garden/ upper courtyard adj. to house	tree group s/s outcrops	10ar(i)/ 10ag(i)	Ac [1] Epip [1] Ac [4+] Er [1]	80-100+ 30-40+ <5 10-15+	10m 8m up to 2m 4m	12m 10m up to 1m 3m	fair good good/ regen. good	5	low	restricted	T&BPO	current construction/ renovation; exotic/ native garden; Ac [1]/ fair- old growth spec./ ext. dead wood & new growth; generic & local native planting [Euc. microcorys, Bint, Xanthorrhoea spp.].	
rear garden/ upper lawn terrace adj. to bdy. No.251			Ac [1] Epip [1] Ac [1] Cgu [1]	60-80+ 80-100+ 50-60+ 30-40+	14m 15m 10m 8m	9m 8m 10m 4m	good see notes fair fair					Ac [1]- some dead wood; Epip [1]/ poor- ext .dead wood/ die-back (60%)/ base abutting house wall (No.251)- recommend arborist inspection; Ac [1]/ Cgu [1]/ fair- dead wood/ new growth; significant remnant native tree group.	
lower rear garden/ steep slope rock outcrops			Ceg [1] Epip [1] Al [1] Epu [2]	40-50+ 30-40+ 30-40+ 15-20+	4m 5m 5m 7-8m	3m 7m 4m 4-6m	good/ lopped fair good fair					significant rock outcrops to lower bdy./ highly modified/ mulched; Epip [1]/ fair- multi-trunked regrowth/ coppicing; Epu X2- likely planted; generic native planting [Corymbia eximia, Angophora floribunda, A. binervia, Leptospermum spp.]; dom. weeds; lower rear garden listings subject to bdy. survey.	
Note: NSW (State) land between rear bdy. and foreshore should be scheduled as SEPP 19: Bushland in Urban Areas.													
251 Edinburgh Rd: front garden/ upper level [mulched garden]	two trees	10ar(i)	Ac [1] Ac [1]	80-100+ 20-30+	15m 9m	12m 5m	good good	5	low	restricted	adj.SEPP 19 /T&BPO	exotic garden/ mulched; no access; Ac [1]- old growth spec.; Ac [1]/ on bdy. No.249 [see above listing].	
rear garden/ lawn terrace & scarp on bdy. to reserve	s/s scarp s/s outcrops											significant s/s scarp & rock outcrops/ bdy. to reserve; highly modified.	
261 Edinburgh Rd: front garden/ upper level [mulched garden]	tree group	10ar(i)	Ac [1] Ac [1] Crho/ Ka	60-80+ 20-30+ up to 10-15+	14m 10m up to 4-8m	10m 4m varies	fair good good	5	low	restricted	adj.SEPP 19 /T&BPO	exotic/ native garden; Ac [1]/ fair- adj. to lawn area/ ext. dead wood & new growth; generic & local native planting [Bint, Crho, Ka, Acacia parramattensis Grevillea linearifolia - all likely planted].	
rear garden/ lawn terrace	s/s scarp		Ac [2]	50-60+	14m	7-8m	good					significant s/s scarp & rock outcrops/	

upper scarp/ bdy. to reserve	s/s outcrops											fenced bdy.; highly modified; Ac [2]- on upper scarp/ some dead wood.
265 Edinburgh Rd: front garden/ upper level adj. to front bdy. & verge	tree group	10ar(i)	Ac [1] Ac [1] Bs/ Er	80-100+ 60-80+ up to 5-10+	12m 12m varies	16m 12m varies	fair poor good	5	low	restricted	adj.SEPP 19 /T&BPO	exotic/ native garden; Ac [1]/ fair- old growth spec./ adj. to driveway; some pruning/ vigorous new growth; Ac [1]/ poor- ext. dead wood/ sparse canopy; Bs/ Er- all planted.
rear garden/ lawns rock outcrops & scarp/ bdy. to reserve	s/s scarp s/s outcrops		Gf [1] Era [1] Era [1] Ac [1]	20-30+ 60-80+ 50-60+ 50-60+	5m 9m 6m 12m	4m 7m 6m 12m	good good good see notes					significant s/s scarp & rock outcrops; Era [1]- on eastern bdy. to No.271; Era [1]- on upper rock outcrops adj. to bdy. No.271/ some dead wood & vigorous growth; Ac [1]- some dead wood/ insect damage & basal cavity; weeds along scarp/ bdy. [incl. <i>Senna</i> , <i>Nephrolepis</i> , <i>Phyllostachys</i> spp.].
271 Edinburgh Rd: front garden/ upper level	tree group	10ar(i)	Ac [3] Ka [2]	15-20+ 15-20+	8-9m 3-5m	4-6m 3m	good good	5	low	restricted	adj.SEPP 19 /T&BPO	exotic/ native garden; Ac [3]/ Ka [2]- likely planted/ unknown provenance; mixed generic & local native planting; Pu regrowth; weeds [<i>Asparagus</i> sp.].
rear garden/ rock outcrops & scarp/ bdy. to reserve	s/s scarp s/s outcrops											highly modified; natives [<i>Dianella</i> sp.]; gen. native planting [incl. <i>Euc. pilularis</i> , <i>A. floribunda</i>]; subject to bdy. survey.
273 Edinburgh Rd: front garden/ lawn area/ upper level	tree group	10ar(i)	Ac [1] Epu [1]	60-80+ 30-40+	14m 9m	12m 4m	good poor	5	low	restricted	adj.SEPP 19 /T&BPO	exotic garden; Ac [1]- adj. to garage/ some dead wood; Epu [1]- adj. to front bdy/ likely planted; Pu regrowth.
rear garden/ rock outcrops	s/s outcrops											Cgu X1/ stag- old growth spec. [dead]; weeds [incl. <i>Olea</i> , <i>Tradescantia</i> spp.].
275 Edinburgh Rd: front garden/ lawn area/ bdy. to verge	single tree	10ar(i)	Ac [1]	?20-30+	6m	7m	good	5	low	isolated	adj.SEPP 19 /T&BPO	exotic/ native garden; Ac [1]- possibly cultivated/ competition w. <i>Phoenix</i> sp.; gen. native planting [<i>Euc. sideroxylon</i> , <i>Corymbia eximia</i>].
rear garden & scarp/ bdy. to reserve	s/s scarp s/s outcrops											significant s/s scarp & rock outcrops; subject to bdy. survey; dom. weeds [<i>Lantana</i> , <i>Arundo</i> spp.].
For even numbers 276-292 Edinburgh Road refer to listings following 299 Edinburgh Road.												Survey Date: 9 Dec- 13 Dec 2013
287 (285) Edinburgh Rd: rear garden & scarp/ bdy. to reserve	s/s scarp s/s outcrops	10ar(i)						5	low	isolated	adj.SEPP 19 /T&BPO	significant s/s scarp, rock outcrops & overhang on lower rear bdy. [see 289 Edinburgh Rd. listing]; dom. weed thicket [incl. <i>Lantana</i> , <i>Arundo</i> spp.].
289 Edinburgh Rd: rear garden scarp/ bdy. & lower steep slope to reserve	s/s scarp s/s outcrops two trees	10ar(i)/ 10ag(i)	Fru [1] Pu [1]	50-60+ ?80-100+	7m 7m	15m 9m	lopped v.poor	5	low	isolated	adj.SEPP 19 /T&BPO	significant s/s scarp, rock outcrops & overhang [not listed as Aboriginal archaeological site]; steep lower slope;

												subject to bdy. survey; Fru [1]- heavily lopped; Pu [1]- old growth spec./ 95% die-back/ basal resprouting; dom.weed thicket [<i>Lantana</i> , <i>Ligustrum</i> , <i>Senna</i> spp.]; highly modified; recent clearing/ herbicidal treatment; mulched area.
291 Edinburgh Rd: rear garden/ steep lower slope & rock outcrops to reserve	s/s outcrops single tree	10ag(i)	Epip [1]	60-80+	16m	6m	see notes	5	low	restricted	T&BPO	significant s/s outcrops; highly modified; Epip [1]/ poor- ext. dead wood & die-back (90%)/vigorous basal resprouting; Epip X1- old growth/ dead stag; <i>Acacia</i> sp./ regrowth; dom. weeds [<i>Senna</i> , <i>Ligustrum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.]; subject to bdy. survey.
Note: Ac [1] 60-80+ 15m X 15m [lower scarp] and Epip [1]- old growth/ dead stage [top of scarp]- located within reserve.												
295 Edinburgh Rd: rear garden/ upper rock outcrops	s/s outcrops tree group	10ag(i)	Fru [1] Ceg [1]	60-80+ ?60-80+	18m 9m	12m 5m	good good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s outcrops; highly modified; Ceg [1]- snapped stem/ old damage new growth; Pu regrowth; dom. weed thicket [incl. <i>Lantana</i> , <i>Nephrolepis</i> , <i>Asparagus</i> spp.].
297 Edinburgh Rd: rear garden/ upper rock outcrops/ upper scarp above lower lawn area	s/s outcrops s/s scarp tree group	10ag(i)	Bs [1] Ceg [1]	40-50+ 60-80+	3m 6m	4m 6m	lopped good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO	exotic/ native garden; gen. natives [incl. <i>Corymbia</i> spp.]; significant s/s outcrops highly modified; dom. weeds
lower lawn level/ western bdy. to No.295/ lower rock outcrops adj. to old steps [lower bdy.] to reserve	remnant community		Epip [1] Epip [1]	?100-150+ 50-60+	14m 15m	16m 7m	fair fair	varies: 3-5	medium-low	fragmented		Epip [1]- v. old growth spec./ ext. dead wood; Epip [1]- ext. dead wood; inc. biodiversity adj. to bdy. [incl. <i>Grevillea linearifolia</i> , <i>Xanthorrhoea</i> , <i>Lomandra</i> , <i>Pteridium</i> , <i>Entolasia</i> , <i>Smilax</i> spp.]; subject to bdy. survey; no access.
299 Edinburgh Rd: rear garden/ upper rock outcrops	s/s scarp s/s outcrops tree group	10ag(i)	Er/ Be	up to 10-15+	up to 4m	varies	good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO	significant s/s scarp & rock outcrops; generic natives [<i>Corymbia citriodora</i> X 18+/ seeding]; Er/ Be- likely planted.
lower rock outcrops to bdy. to reserve	remnant community											Pu regrowth; remnant natives [incl. <i>Lomandra</i> , <i>Pteridium</i> , <i>Imperata</i> spp.]; no access.
												Survey Date: 22 Apr-26 Apr 2013
276 Edinburgh Rd: front garden/ on bdy. to No.274 Edinburgh Rd	single tree	10ag(i)	Ac [1]	60-80+	10m	12m	good	5	low	restricted	T&BPO	exotic garden; Ac [1]-some dead wood in crown; listing subject to bdy. survey.
280 Edinburgh Rd: front garden/ adj to entry pathway & front bdy.	two trees	10ag(i)	Ac [1] Epip [1]	80-100+ 80-100+	14m 12m	18m 6m	good good/ lopped	5	low	fragmented	T&BPO	exotic garden w. mini golf course/ synthetic turf; Ac [1]- sculptural old growth spec./ some dead wood; Epip [1]- old growth multi-trunk spec./ past lopping w.vigorous epicormic regrowth remove <i>Hedera</i> sp. on main stems.

282 Edinburgh Rd: front garden/ adj. to driveway/ front bdy. & bdy. to No.280 Edinburgh Rd	single tree	10ag(i)	Ac [1]	?100-150+	16m	16m	good	5	low	fragmented	T&BPO	exotic garden and lawn; Ac [1]- v. old growth multi-trunk (2) spec./ 1200mm diam. base.
284 Edinburgh Rd: front garden/ upper terrace adj. to front bdy.	single tree	10ar(i)	Cgu [1]	60-80+	8m	5m	fair/ lopped	5	low	restricted	T&BPO	exotic garden; Cgu [1]- lopped/ sparse open crown w. some dead wood.
286 Edinburgh Rd: front garden/ adj. to carport & steep slope/ rock outcrops	tree group s/s outcrops	10ag(i)	Epip [1] Epip [1] Fru [1]	60-80+ 50-60+ <5	10m 10m 1.5m	12m 7m 1m	see notes fair good/ regen.	5	low	restricted	T&BPO	exotic/ native garden; Epip [1]- insect damage & large cavity/ some pruning for o'head powerlines; Epip [1]/ fair- ext. dead wood/ crown die-back (40%); gen. native planting [incl. Bint/ dead]; dom. weeds [<i>Ficus pumila</i> , <i>Asparagus</i> , <i>Olea</i> , <i>Ligustrum</i> spp.].
290 Edinburgh Rd: front garden/ upper slope	s/s outcrops two trees	10ar(i)/ 10ag(i)	Ceg [1]	?40-50+	5m	3m	good	varies: 4-5	low	restricted	T&BPO	remnant native ferns [incl. <i>Calochlaena</i> , <i>Pteridium</i> spp.]; gen. native planting [<i>Melaleuca</i> sp.]; weeds [<i>Asparagus</i> , <i>Nephrolepis</i> , <i>Agave</i> spp.].
rear garden/ upper slope adj. to house & bdy. No.288 Edinburgh Rd/ steep slope to road cutting [The Tor Walk]			Epip [1]	?100-150+	16m	18m	good	5				significant rock outcrops; Epip [1]- v. old growth spec./ 1000mm+ diam. base; Pu regrowth; generic native planting; dom. weeds; no access onto property.
292 Edinburgh Rd: west garden/ upper slope & rock outcrops	s/s outcrops tree group	10ag(i)	Ac [2] Ac [1] Er [1] Pu [2]	40-50+ 40-50+ 20-30+ 60-80+	10-12m 10m 1.5m 6-7m	5-7m 5m 4m 6-7m	good fair/ lopped good/ lopped regrowth	5	low	fragmented	T&BPO	exotic garden; significant rock outcrops; Ac X3 group- part of larger fragmented native canopy group [see verge listings below]/ pruning for o'head powerlines; Pu old regrowth specs.; generic native planting [incl. <i>Corymbia maculata</i>]; listings subject to bdy. survey.
For public verge listings adjacent to No.292 Edinburgh Road refer to Edinburgh Road and The Tor Walk - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
Survey Date: 25 Nov-29 Nov 2013												
301 Edinburgh Rd: rear garden/ steep eastern slope below lawn terrace	s/s scarp s/s outcrops two trees	10ar(i)/ 10ag(i)	Al [1] Fru [1]	20-30+ 5-10+	7m 2m	5m 3m	good/lopped good	5	low	restricted	T&BPO	significant s/s scarp & rock outcrops [part of bdy. between Nos.303 & 303A/ see listings; weed/ thicket [<i>Lantana</i> , <i>Phyllostachys</i> spp.]; listings subject to bdy. survey [see road reserve].
For public verge listings adjacent to upper front bdy. to No.301 Edinburgh Road refer to Edinburgh Road - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
303 Edinburgh Rd: rear garden/ upper scarp & rock outcrops	s/s scarp s/s outcrops tree group	10ar(i)	Fru [1] Fru [1]	50-60+ 50-60+	8m 4m	10m 9m	good good	5	low	isolated	T&BPO	significant s/s scarp & rock outcrops [form bdy. to No.303A/ see listing]; Fru [1]- multi-stemmed/ some pruning; Fru [1]- multi-stemmed; weeds [incl. <i>Lantana</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.]
lower rock outcrops forming bdy. to No.303A			Ceg [1] Er [1]	30-40+ 15-20+	8m 7m	3m 3m	good good					significant s/s outcrops; listings subject to bdy. survey.
303A Edinburgh Rd: front garden/	tree group	10ag(i)/	Ac [1]	80-100+	18m	12m	good	5	low	fragmented	T&BPO	mulched garden beds; part of larger

rock outcrops	s/s outcrops	10ar(i)	Ac [1] Er [1]	60-80+ 15-20+	14m 7m	10m 2m	good good					remnant native tree group [see road reserve listing/ subject to bdy. survey]; Ac [1]- old growth multi-trunk (5) spec. on bdy. to verge; Ac [1]- massive roots over rock outcrops/ some dead wood; weeds [<i>Phyllostachys</i> sp.] cleared.
rear garden/ western courtyard scarp/ rock outcrops	s/s scarp											significant s/s scarp & rock outcrops [form bdy. to No.303/ see listing]; exotic garden; possibly remnant native ferns assoc. w. scarp; no access.
<i>For public verge listings adjacent to front bdy. to No.303A Edinburgh Road refer to Edinburgh Road - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
<i>For even numbers 304, 306 & 308 Edinburgh Road refer to listings following 375 Edinburgh Road.</i>												Survey Date: 18 Nov-22 Nov 2013
311 (311-313) Edinburgh Rd: rear garden/ upper slope & rock outcrops	s/s outcrops tree group	10ag(i)	Ac [1] Cgu [1]	80-100+ 40-50+	22m 16m	25m 5m	good good	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	significant rock outcrops/ overhang; Aboriginal archaeological site - NPWS listing 45-6-1148; site access denied; exotic terraced/ gen. native garden; significant remnant native tree group; Ac [1]- old growth multi-trunk spec./ adj. to house.
steep lower slope/ rock outcrops			Ac [1] Epip [1] Cgu [1] Cgu [1] Al/ Er/ Fru Bint [1] Bs/ Ceg/ Be	40-50+ 30-40+ 60-80+ 40-50+ <5 40-50+ <5	16m 10m 18m 14m up to 3m 16m up to 2m	9m 7m 9m 8m varies 7m varies	good good poor good good/ regen. fair/ lopped good					Cgu [1]/ poor- crown die-back/ new adventitious growth; good regen. [Al/ Er/ Fru]; remnant natives [<i>Pteridium</i> , <i>Lomandra</i> spp.]; generic & local native planting [Bint, Bs, Ceg, Be]/ all likely planted; <i>Cyathea</i> sp.- cultivated origin.
315 Edinburgh Rd: rear garden/ lower steep slope & rock outcrops	s/s outcrops tree group remnant community	10ag(i)	Cgu [1] Ceg Al/ Er/ Ceg	60-80+ up to 20-30+ up to 5-10+	16m up to 2-3m up to 2-3m	8m 1-2m varies	good good good	varies: 2-5 [mainly 2]	high-low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant s/s outcrops; no access; extensive clearing; significant native biodiversity/ regen. [incl. <i>Clerodendrum tomentosum</i> , <i>Lepidosperma laterale</i> , <i>Austrostipa rudis</i> , <i>Caustis flexuosa</i> , <i>Lepyrodia scariosa</i> , <i>Arthropodium milleflorum</i> , <i>Schoenus melanostachys</i> , <i>Notelaea</i> , <i>Lomatia</i> , <i>Pandorea</i> , <i>Smilax</i> , <i>Pteridium</i> , <i>Imperata</i> spp.]; weeds [incl. <i>Nephrolepis</i> , <i>Lantana</i> , <i>Senna</i> , <i>Ochna</i> spp.].
325 Edinburgh Rd: front garden/ rock outcrops/ tor adj. to driveway	s/s outcrops s/s scarp core bushland community	10ar(i)	Epip [1] Ac [2] Ac [1] Had/ Al/ Er Ka/ Fru	?100-150+ 20-30+ 20-30+ up to 15-20+ <5	12m 8-9m 6m up to 6-9m <1.5m	15m 3-5m 2m varies varies	good good fair good good/ regen.	varies: 1-5	high-low	contiguous	adj.SEPP 19 /T&BPO SREP 23	significant rock outcrops/ formations [tor] adj. to driveway/ entry; contiguous w. public reserve [see listing]; high bio-diversity/ significant core bushland community; varying level of disturbance on lower slopes/ edges; Epip [1]- v.

												old growth multi-trunk (3) spec.; Ac [1]/ fair- ext. dead wood; natives [<i>Acacia linifolia</i> , <i>Leptospermum trinervium</i> , <i>Xanthorrhoea</i> , <i>Crowea</i> , <i>Lomandra</i> , <i>Pteridium</i> spp.]; Pu regrowth; Bint-cultivated origin ; some weeds [incl. <i>Asparagus</i> sp.]; subject to bdy. survey.
For adjoining public reserve [incl. road reserve] listings between Nos.315 & 325 [incl. rock outcrops/ tor] refer to Public Reserves - Nos.317, 319, 321 & 323 Edinburgh Road.												
rear garden/ steep slope & rock outcrops along upper scarp	s/s scarp s/s outcrops	10ag(i)	Ceg [1]	80-100+	7m	6m	good	5	low	restricted	significant s/s scarp & rock outcrops; highly modified; Ceg {1}- old growth multi-trunk spec.; gen. native planting.	
lower scarp/ steep slope & rock outcrops	core bushland community		Ac [1] Crho [2] Fru [1] Crho/ Al/ Er Pu [dom.]	80-100+ 60-80+ 30-40+ up to 20-30+ up to 40-50+	16m 14m 12m up to 4-8m up to 6-7m	16m 3-4m 6m varies varies	fair good good good regrowth	varies: 2-5	high-low	fragmented	significant rock outcrops; area under regen./ restoration strategy; Ac [1]/ fair- old growth spec. dead wood/ vigorous new growth; Crho [2]- possibly older; natives [incl. <i>Lepidosperma</i> , <i>Hypolepis</i> , <i>Entolasia</i> spp.]; min. weeds [<i>Lantana</i> , <i>Asparagus</i> spp.]; Pu regrowth [dom.].	
lower steep slope/ rock outcrops adj. to foreshore & cottage			remnant community tree group	Pu [dom.] Al/ Er	up to 40-50+ up to 20-30+	up to 6-7m up to 4-8m	varies varies	regrowth good	varies: 4-5		low	significant s/s outcrops; subject to bdy. survey; highly modified/ dom. weed thicket [<i>Phyllostachys</i> (dom.), <i>Lantana</i> , <i>Ochna</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.]; no access.
For adjoining public reserve [foreshore] listing refer to Public Reserves - Nos.317, 319, 321 & 323 Edinburgh Road and NSW (State) land adjoining No.327 Edinburgh Road.												
327 Edinburgh Rd: front garden/ upper level	tree group	10ag(i)	Ac [1] Ac [1]	50-60+ 10-15+	14m 6m	14m 2m	good good	5	low	fragmented	T&BPO SREP 23	native garden; Ac/ Er/ Be/ Bs- all likely planted ; no access.
rear garden/ upper scarp	s/s scarp s/s outcrops tree group		Ac [1]	60-80+	18m	7m	poor			restricted		significant s/s scarp & rock outcrops; highly modified; Ac [1]- ext. die-back (50%)/ new growth.
lower scarp to rear bdy. to reserve [NSW (State) land]			Ac [1] Gf [2]	80-100+ 20-30+	22m 8-9m	22m 4-6m	good good			Ac [1]- old growth spec./ some dead wood; area under regen./ restoration strategy; Pu regrowth; listings subject to boundary survey; no access.		
For adjoining reserve [foreshore] listing refer to Public Reserves - Area C (iii) - NSW (State) land adjoining No.327 Edinburgh Road.												
329 Edinburgh Rd: front garden/ upper level	tree group	10ag(i)	Ac [1] Al [1] Gf [2]	40-50+ 20-30+ 30-40+	16m 8m 6-7m	9m 6m 6-7m	good good good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic garden; remnant natives [<i>Calochlaena</i> sp.]; no access.
rear garden/ upper scarp between house & studio	s/s scarp s/s outcrops		Fru [1] Al [2]	?100-150+ 5-10+	12m 3m	22m 1m	good good					Fru [1]- outstanding old growth spec./ assoc.w. significant s/s scarp & rock outcrops; highly modified; natives [<i>Hypolepis</i> sp.]; Pu regrowth [dom.]; dom. weeds [<i>Olea</i> , <i>Tradescantia</i> spp.]; listings subject to bdy. survey.
lower slope/ rock outcrops below studio [top of lower scarp]			Ac [1] Ac [2] Al/ Fru Pu/ Gf	50-60+ 30-40+ up to 10-15+ up to 30-40+	16m 14-16m up to 3-7m up to 6-7m	12m 5-7m varies varies	fair good good regrowth					

lower scarp adj. to lower cottage [above boathouse]			Pu [dom.]	up to 30-40+	up to 6-7m	varies	regrowth					significant s/s scarp; highly modified; dom. weeds [see listing for No.327].
<i>For adjoining public reserve [WCC] listing refer to Public Reserves - Area C (iv) - WCC land parcel between Nos.329 & 333 Edinburgh Road.</i>												
333 Edinburgh Rd: front garden/ adj. to house	tree group	10ag(i)	Gf [1] Ka/ Be/ Bint	60-80+ up to 5-10+	10m up to 2-3m	9m varies	poor good	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	native garden; Gf [1]- dead wood/ new growth; generic & local native planting [incl. <i>Acacia elata</i> , <i>A. linifolia</i> , <i>Breynia</i> , <i>Syncarpia</i> , <i>Dodonaea</i> spp./ <i>Eha/ Ac/ Be/ Ka/ Bint</i>]; dom. weeds. contiguous regen./ restoration strategy w. adj. reserve [WCC land- see listing]; Ac regen.; natives [<i>Xanthorrhoea</i> sp.];
rear garden/ below upper scarp adj. to rear bdy. to reserve	s/s scarp s/s outcrops tree group		Ac Ac/ Al/ Ka	<5 up to 5-10+	<1m up to 2-3m	<0.5m varies	regen. good	varies: 4-5 [mainly 5]				
335 Edinburgh Rd: rear garden/ upper slope/ rock outcrops adj. to bdy. No.337	s/s outcrops tree group	10ag(i)	Epip [1]	?100-150+	16m	25m	poor	varies: 4-5 [mainly 5]	low	restricted	T&BPO SREP 23	exotic garden/ upper terraces; highly modified; Epip [1]/ poor- v. old growth. massive multi-trunk spec./ext. dead wood & crown die-back; subject to bdy. survey; no access
mid- to lower slope/ rock outcrops			Epip [1] Er [1]	80-100+ 30-40+	12m 7m	10m 5m	fair good					significant s/s outcrops; Epip [1]/ fair- old growth multi-trunk (3) spec./ large basal cavity & some dead wood; dom. weeds [incl. <i>Ipomoea</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.].
lower slope to foreshores/ rock outcrops	remnant community		Crho [1] Crho [2] Al [1] Al [2] Cgu [1] Er/ Fru	?60-80+ 30-40+ 50-60+ 10-15+ 20-30+ <5	9m 6-9m 4m 3-5m 6m <2m	6m 3-4m 8m 3-4m 2m <1m	good good good good see notes good/ regen.	varies: 3-5 [mainly 5]	medium-low	fragmented		<i>Callitris rhomboidea</i> / Crho [group]- incl. possibly old growth spec.; stags/ dead standing trees; remnant natives [<i>Grevillea linearifolia</i> , <i>Xanthorrhoea</i> , <i>Persoonia</i> , <i>Dodonaea</i> , <i>Entolasia</i> , <i>Dianella</i> spp.]; dom.weeds [as above].
337 Edinburgh Rd: front garden/ upper level adj. to fence	s/s scarp s/s outcrops	10ag(i)	Ac [1]	30-40+	9m	6m	good	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic/ native garden; highly modified; gen. native planting [<i>Corymbia</i> sp.].
rear garden/ lower scarp rock outcrops to foreshore	tree group remnant community		Er [6+] Fru [1] Gf [1] Al/ Ceg/ Gf	up to 20-30+ 20-30+ 20-30+ 5-10+	up to 6m 4m 6m up to 3-4m	varies 8m 5m up to 2-3m	good good good good	varies: 4-5 [mainly 5]				significant s/s scarp & rock outcrops; regrowth community; Fru [1]- multi-trunk spec.on rock outcrops; gen.native planting; Pu regrowth; dom. weeds.
rock outcrops/ adj. to HWM			Ac [1] Al [1]	80-100+ 30-40+	12m 6m	18m 4m	v.poor good					Ac [1]/ v.poor- old growth spec./ ext. dead wood/ die-back (80%); new adventitious growth; remnant natives [<i>Lomandra</i> sp.]; Pu regrowth; weeds; listings subject to bdy. survey.
339 Edinburgh Rd: front garden	s/s outcrops tree group remnant	10ag(i)	Gf/ Er Er [1] Ceg [1]	up to 5-10+ ?30-40+ ?15-20+	2-3m 1.5m 3m	up to 2m 1m 1m	good fair/ lopped good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic/ native garden; highly modified; regrowth group; Er X2 & Ac [1]- lopped stumps/ basal regrowth; natives [incl.

361 Edinburgh Rd: rear garden/ upper scarp & rock outcrops	s/s outcrops s/s scarp two trees	10ag(i)	Fru [1]	80-100+	12m	15m	good	5	low	restricted	T&BPO	exotic/ native garden; highly modified; significant s/s scarp & rock outcrops; Fru [1]-multi-stemmed old growth spec. dom. weeds [<i>Ligustrum</i> , <i>Asparagus</i> , <i>Tradescantia</i> , <i>Cardiospermum</i> spp.].
lower scarp to foreshore/ rock outcrops adj. to bdy. public reserve			Ac [1]	60-80+	16m	6m	poor					Ac [1]/ poor- ext. dead wood/ die-back (60%)/ adventitious growth; gen. native planting [incl. <i>Casuarina glauca</i> - likely planted] ; weeds [see above]; no access
365 Edinburgh Rd: rear garden/ upper scarp & rock outcrops	s/s outcrops s/s scarp two trees	10ag(i)	Mv [1] Gf [1]	?80-100+ 80-100+	8m 12m	3m 9m	good good	5	low	restricted	T&BPO	exotic/ native garden; highly modified; significant s/s scarp & rock outcrops; Mv [1]- <i>Myrsine variabilis</i> - old growth spec./ multi-stemmed (6+); Gf [1]- old growth spec./ multi-stemmed; generic native planting [<i>E. saligna</i>] ; no access.
lower foreshore terrace/ rock outcrops			Casg	up to 30-40+	up to 15m	varies	good					Casg- subject to bdy. survey/ refer to adj. public reserve listing [Area C(vii)].
369 Edinburgh Rd: front garden/ small paved courtyard	single tree	10ag(i)	Ac [1]	20-30+	14m	7m	good	5	low	fragmented	T&BPO	exotic/ native garden; highly modified; Ac [1]- adj. to house.
371 Edinburgh Rd: front garden/ adj. to road reserve/ cul-de-sac	s/s outcrops tree group	10ag(i)	Ac [1] Ac [1] Gf [1]	80-100+ 5-10+ <5	16m 2.5m 1m	22m 2m 0.5m	fair good good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic/ native terraced garden; highly modified; Ac [1]/ fair- on front bdy./ old growth spec./ext. dead wood/ die-back (30%)/ vigorous new growth; remnant natives [<i>Lomandra</i> , <i>Dianella</i> spp.]; exotics/ weeds [<i>Cotoneaster</i> spp.].
For adjoining road reserve listing refer to Edinburgh Road - Road Reserves, Drainage Easements & Public Pedestrian Linkages: adj. to 371 Edinburgh Road.												
rear garden/ upper lawn terraces & rock outcrops	s/s outcrops s/s scarp tree group remnant community	10ag(i)	Xa [1] Al [1]	?80-100+ 50-60+	1.5m 5m	7m	good good					significant s/s scarp, rock outcrops & rock formations/ overhang; highly modified; Xa [1/ <i>Xanthorrhoea arborea</i> old growth spec.; Ac [1]/ v.poor- ext. dead wood/ die-back (90%)/ minimal regrowth; gen. native planting [incl. <i>Euc. punctata</i> , <i>Corymbia maculata</i> , <i>Angophora floribunda</i> , <i>Toona ciliata</i> , Bint]; Pu regrowth; weeds.
top of scarp			Ac [1] Gf [1]	20-30+ 60-80+	9m 7m	5m 8m	v.poor good					Gf [1]/ fair- crown die-back (40%); natives assoc.w. rock overhang [incl. <i>Lepidosperma</i> , <i>Lomandra</i> , <i>Dianella</i> spp.]; dom. weeds [incl. <i>Tradescantia</i> , <i>Lantana</i> , <i>Asparagus</i> , <i>Ligustrum</i> spp.].
mid- to lower scarp/ adj. to bdy. No.367 Edinburgh Rd			Gf [1]	40-50+	7m	5m	fair					For Fru X1 listing see listing No.373 Edinburgh Rd/ resprouting along rock outcrops.
lower scarp/ rock outcrops to foreshore- grassed terrace & boathouse			Al [1] Gf [1]	40-50+ 30-40+	8m 5m	5m 4m	good good					

373 Edinburgh Rd: rear garden/ lower terrace/ rock outcrops to foreshore	s/s outcrops two trees	10ag(i)	Fru [1] Fru [1]	80-100+ 60-80+	9m 8m	15m 12m	good good	5	low	restricted	T&BPO	exotic terraced garden; highly modified; significant s/s outcrops; Fru X2 [incl. old growth spec.]/ on rock outcrops; dom. weeds [incl. <i>Ligustrum</i> , <i>Lonicera</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Tradescantia</i> spp.].
375 Edinburgh Rd: rear garden/ scarp/ rock outcrops to foreshore	s/s scarp s/s outcrops tree group	10ag(i)	Al [1] Er/ Gf/ Pu Ac	40-50+ up to 15-20+ <5	7m up to 4-6m <1m	7m varies <0.5m	v.poor regrowth good/ regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic/ native garden; highly modified; significant s/s scarp & rock outcrops; mixed gen./ rainforest & local native planting [incl. <i>Euc. grandis</i>, <i>E. saligna</i>, <i>Acacia elata</i>, <i>Ceratopetalum apetalum</i>, <i>Allocasuarina torulosa</i>, <i>Casuarina glauca</i>, <i>Cissus antarctica</i>]; remnant natives [incl. <i>Dianella</i> , <i>Lomandra</i> spp.]; Ac regen.; Pu regrowth; dom. weeds [<i>Ligustrum</i> , <i>Senna</i> , <i>Cardiospermum</i> , <i>Nephrolepis</i> , <i>Lonicera</i> , <i>Asparagus</i> , <i>Tradescantia</i> spp.].
												Survey Date: 11 Nov-15 Nov 2013
304 Edinburgh Rd: rear garden/ steep slope/ rock outcrops to foreshore [construction site adj. to public reserve]	s/s outcrops	10ar(i)/ 10ag(i)						5	low	isolated	T&BPO SREP 23	current construction site; no access to steep slope; significant rock outcrops; dom. exotics/ weed thicket to shoreline [<i>Lantana</i> , <i>Phyllostachys</i> , <i>Ligustrum</i> , <i>Ipomoea</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Olea</i> spp.]; no remnant native canopy; possibly some remnant native under- storey [<i>Dodonaea</i> , <i>Dianella</i> , <i>Smilax</i> , <i>Lomandra</i> spp.]; Pu regrowth.
306 Edinburgh Rd: front garden/ upper level	s/s outcrops two trees	10ar(i)/ 10ag(i)	Ac [1]	5-10+	6m	2m	good	5	low	restricted	T&BPO SREP 23	exotic garden/ highly modified; Ac [1]- likely planted ; local & generic native planting; significant s/s outcrops; Er [1]- lopped/ coppiced regrowth; Pu regrowth; no access.
rear garden/ lower steep slope & rock outcrops to foreshore			Er [1]	?30-40+	1m	0.5m	good/ lopped					
308 Edinburgh Rd: front garden/ [upper west garden] rock outcrops adj. to driveway	tree group s/s outcrops	10ag(i)	Ac [1] Fru [1] Gf [1] Gf [1]	80-100+ 20-30+ 30-40+ 5-10+	16m 4m 8m 5m	14m 6m 5m 2m	good good good good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	significant remnant native tree group assoc.w. rock outcrops; Ac [1]- old growth spec./ some dead wood; Pu regrowth; dom.weeds [incl. <i>Ligustrum</i> , <i>Olea</i> , <i>Asparagus</i> spp.]; listings subject to boundary survey; no access.
upper slope/ rock outcrops adj. to paved upper courtyard/ terrace [east of garage]	remnant community		Ac [1] Ac [1] Ceg [2]	?100-150+ 60-80+ ?50-60+	20m 16m 3-4m	18m 12m 3m	fair fair good/ regrowth	varies: 3-5 [mainly 5]	medium-low			Ac [1]/ fair- v. old growth spec./900mm DBH/ open crown/ die-back (40%); Ac [1]/ fair [60-80+]- ext. dead wood/

			Er [1] Er [2] Gf [1]/ Bs [1]	30-40+ 15-20+ 10-15+	6m 3-4m 5-6m	5m 1-2m 2-3m	good good good					crown die-back (30%); Ceg X 2- multi-stemmed (4 ea)/ lopped w. vigorous regrowth; natives [incl. <i>Calochlaena</i> , <i>Dianella</i> , <i>Lomandra</i> , <i>Smilax</i> spp.]; Pu regrowth; also generic native planting.
adj. to bdy. road reserve/ upper drainage reserve			Gf [1]	60-80+	6m	8m	v.poor	5	low	restricted		Gf [1]/ v.poor- ext. crown die-back (60%); listing subject to bdy. survey.
upper north-eastern terraces/ incl. pool terrace/ steep slope & rock outcrops below pool level			Gf [1] As [1] Abin [1]	5-10+ 15-20+ 20-30+	2m 2.5m 6m	1m 3m 6m	good good v.poor			isolated		significant s/s outcrops; highly modified; native regen./ regrowth [<i>Homalanthus</i> sp.]; mixed gen. & local native planting [incl. <i>As/ Acmena smithii</i> , <i>Abib/ Acacia binervia</i> , Bs, Be, Bint, As, <i>Cissus antarctica</i> - all likely planted]; dom. weeds [incl. <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.]; Pu regrowth.
Edinburgh Road - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 25 Jan-29 Jan 2010
<i>Note: Road reservation contains examples of immature [up to 20-30 yrs+] cultivated local natives of unknown provenance which are not included in this schedule.</i>												
island in roadway intersection: Edinburgh Road/ The Parapet intersection	remnant community	10ar(i)						varies: 4-5 [mainly 5]	low	isolated	T&BPO	roadway island w. raised s/s edging [Inter-war period/ Griffin- designed/ cultural heritage]; no native canopy; cultivated generic natives [<i>Corymbia citriodora</i>]; possibly some regen. [incl. <i>Pultenaea daphnoides</i> , <i>Pteridium</i> , <i>Microlaena</i> spp.]; restoration planting [incl. <i>Persoonia</i> , <i>Lomandra</i> , <i>Dianella</i> , <i>Themeda</i> , <i>Poa</i> spp.]; minimal weeds.
<i>Note: For further details of road island management history refer to Griffin Reserves Plan of Management - Inventory of Road Islands [L-7] (Lehany & Walker for WCC, 1997) .</i>												
island in roadway intersection: Edinburgh Road/ Sortie Port intersection								5	low	isolated	T&BPO	roadway island w. Griffin memorial/ fountain; landscaping/restoration [Eha/ Bs, <i>Grevillea</i> , <i>Dianella</i> , <i>Cymbopogon</i> spp.]/ no remnant native spp. evident.
<i>Note: For further details of road island management history refer to Griffin Reserves Plan of Management - Inventory of Road Islands [L-1] (Lehany & Walker for WCC, 1997) .</i>												
												Survey Date: 16 Dec-20 Dec 2013
public right-of-way: NSW (State) land between Nos. 177 & 183 Edinburgh Road [incl. driveway]	tree group	10ar(i)	Ac [1] Al [1] Bs [1]	60-80+ 20-30+ 30-40+	9m 7m 4m	9m 5m 5m	see notes good good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO	highly modified; adj. owners confirmed survey bdy; Ac [1]-multi-trunk (2) spec./ large basal cavity/ some dead wood & vigorous new growth; generic & local native planting; weeds; Pu regrowth.
<i>For NSW (State) land adjoining rear boundaries to Nos.177-189 Edinburgh Road refer to Edinburgh Road - Public Reserves</i>												
												Survey Date: 25 Jan-29 Jan 2010
public verge: adj. to front bdy. 184 Edinburgh Rd [Castlecrag Montessori School]	single tree	10ar(i)	Al [1]	30-40+	4m	4m	fair	5	low	restricted	T&BPO	Al [1]- damaged crown/ part of larger significant tree group [see listing]; Eha X2 on verge [7-8m HT]- likely planted; other generic native planting.

public verge: adj. to front bdy. 190 Edinburgh Rd/ cnr. To The Citadel	tree group	10ar(i)	Crho [1] Bs/ Gf	15-20+ up to 10-15+	4m 4-5m	6m 3-4m	lopped good	5	low	isolated	T&BPO	grass verge; likely all local native planting/ no remnant native spp.; dom. weeds [<i>Tradescantia</i> , <i>Asparagus</i> spp.]
												Survey Date: 20 Dec-24 Dec 2010
public verge/ rock outcrops: adj. to front bdy. 192 Edinburgh Rd	single tree s/s outcrops	10ar(i)	Fru [1]	?60-80+	6m	12m	good	5	low	restricted	T&BPO	exotic garden; significant s/s outcrops; Fru [1]- possibly old growth spec./ lopped under o'head power-lines; <i>Xanthorrhoea</i> sp.- cultivated; weeds [incl. <i>Asparagus</i> , <i>Acetosa</i> spp.].
												Survey Date: 11 Nov-15 Nov 2013
public grass verge: adj. to Stoker Playground [between Nos. 223 & 239 Edinburgh Rd]	tree group	10ar(i)	Ac/ Eha	up to 20-30+	up to 14m	up to 9-10m	good	5	low	restricted	T&BPO	no remnant native trees; mixed generic [<i>E. microcorys</i>/ <i>E. sideroxylon</i>]/ local natives [Eha/ Ac]- all planted.
												Survey Date: 20 Dec-24 Dec 2010
easement/ pedestrian right- of-way/ steps: between Nos. 222-224 Edinburgh Rd & Nos.13-15 The Bulwark	s/s outcrops s/s scarp single tree	10ar(i)/ 10ag(i)	Cal [1]	5-10+	2m	3m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s scarp & rock outcrops; Cal [1]- on upper scarp/ likely planted; native ferns [<i>Calochlaena</i> sp.]; generic native planting; dom. weeds [<i>Senna</i> , <i>Asparagus</i> , <i>Tradescantia</i> spp.].
												Survey Date: 12 Dec-16 Dec 2011
public verge: adj. to front bdy. No.256 Edinburgh Road	single tree	10ar(i)	Ac [1]	40-50+	8m	5m	good	5	low	restricted	T&BPO	grass verge; Ac [1]- multi-stemmed/ pruned under o'head power-lines.
												Survey Date: 22 Apr-26 Apr 2013
public verge: adj. to front bdy. No.266 Edinburgh Road	tree group	10ar(i)	Ac/ Bs/ Al Ac/ Ka	10-15+ <5	up to 4-5m up to 2m	varies varies	good good	5	low	isolated	T&BPO	generic native/ local native restoration planting [unknown provenance]; no remnant native spp.
south-side embankment between Edinburgh Rd & The High Tor/ adj. to No.270 Edinburgh Rd [one-way section of roadway]	s/s outcrops tree group	10ag(i)	Fru [3+] Era [1] Al [1] Ac/ Al/ Ahis Er/ Ka	?100-150+ ?100-150+ 50-60+ up to 10-15+ up to 10-15+	16m 12m 9m up to 4-6m up to 4-6m	25m [total] 18m 8m varies varies	good good good good good	5	low	fragmented	T&BPO	steep embankment/ highly modified; significant rock outcrops; Fru [3+]/ old growth possibly single spec./ multi- stemmed assoc.w. rock outcrops; Era [1]- old growth, multi-trunk [2]/ some dead wood; remnant natives [<i>Sticherus flabellatus</i> , <i>Calochlaena</i> , <i>Pteridium</i> , <i>Homalanthus</i> spp.]/ over- lay planting (unknown provenance) [incl. Ac/ Al/ Ahis/ Er/ Ka , <i>Grevillea</i> <i>linearifolia</i> , <i>Acacia terminalis</i> , <i>A.linifolia</i> <i>Tristanopsis</i> , <i>Dodonaea</i> , <i>Bauera</i> , <i>Imperata</i> spp.]; Pu regrowth; fdom. weeds [incl. <i>Lantana</i> , <i>Tradescantia</i> , <i>Acetosa</i> , <i>Nephrolepis</i> , <i>Ehrharta</i> spp.].
upper verge/ road reserve adj. to	single tree		Caci [1]	?50-60+	5m	6m	fair/ lopped					Caci [1]/ <i>Callistemon citrinus</i> - possibly

bdy. No. 270 Edinburgh Rd	s/s outcrops											old remnant, multi-stemmed spec./ lopped assoc.w. rock outcrops; native ferns [<i>Calochlaena</i> sp.]; dom. weeds.
												Survey Date: 9 Dec- 13 Dec 2013
north-side embankment between Edinburgh Rd & The High Tor/ adj. to No.301 Edinburgh Rd [one-way section of roadway] upper level rock outcrops/ garden bed west of driveway to No.301	s/s outcrops s/s cutting tree group remnant community	10ar(i)/ 10ag(i)	Fru [3+] Ac [3] Er [1]	20-30+ up to 5-10+ ?20-30+	5m 2-4m 1m	6m 1-2m 1m	good regen. see notes	varies: 4-5 [mainly 5]	low	restricted	T&BPO	rock outcrops/ garden bed; highly modified; Fru [1]- remove <i>Hedera</i> sp. on trunk; Ac [3]- good regen.; Er [1]- dead stem/ basal resprouting; remnant natives [<i>Lomandra</i> , <i>Dianella</i> spp.]; dom. exotics/ weeds [<i>Phyllostachys</i> , <i>Lantana</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.]
upper level/ east of driveway to No.301 Edinburgh Rd			Ac [1] Ac [1] Ac [2]	80-100+ 80-100+ 40-50+	12m 12m 8m	15m 15m 5m	good good good					Ac X2- old growth specs./ some dead wood; remnant natives [incl. <i>Grevillea</i> , <i>Lomandra</i> , <i>Pteridium</i> spp.]; Pu regrowth (dom.); dom. exotics/ weeds [<i>Strelitzia</i> sp./ see above].
steep mid- to lower slope/ rock outcrops			Al [dom.] Ac [1] Ac [3] Ac [2] Er Fru/ Ac/ Al Ceg/ Er	up to 30-40+ 40-50+ 20-30+ 15-20+ up to 20-30+ <5 <5	up to 7-8m 5m 8-9m 8-9m up to 7m up to 2m up to 2m	varies 4m 6-7m 2-3m up to 3m varies varies	good lopped good good good good/ regen. good/ regen.	varies: 3-5	medium-low	fragmented		significant remnant native Ac/ Al group; good natural regen. [Ac, Al, Ceg, Er]; Ac [1]- lopped/ regrowth under o'head lines; natives [<i>Acacia suaveolens</i> , <i>Dodonaea</i> , <i>Smilax</i> spp.]; Pu regrowth; lower slope- dom. weed thicket [incl. <i>Phyllostachys</i> sp.].
												Survey Date: 22 Apr-26 Apr 2013
public verge: cul-de-sac/ adj. to front bdy. No.274 Edinburgh Road & electricity sub-station	tree group	10ag(i)	Ac [1] Ac [1] Era [1]	80-100+ 30-40+ 80-100+	10m 12m 10m	14m 5m 6m	good good fair/ lopped	5	low	restricted	T&BPO	grass verge; Ac [1]- old growth spec./ some dead wood in crown; Era [1]/ fair old growth multi-trunk (3)/ X1 lopped spec./ insect damage & dead wood/ past lopping; Bs X1- cultivated origin.
public verge: cul-de-sac/ adj. to south bdy. No.280 Edinburgh Rd	two trees	10ag(i)	Cgu [1]	60-80+	10m	7m	fair	5	low	restricted	T&BPO	grass verge; Cgu [1]- multi-trunk (2) spec./ext. dead wood/ crown die-back (30%)/ Fru seedling establishing; Eha X1-immature/ cultivated origin.
public verge: adj. to driveway & front bdy. No.280 Edinburgh Rd			Ac [1]	60-80+	14m	12m	good			fragmented		grass verge; Ac [1]- pruning for o'head powerlines/ some dead wood in crown.
												Survey Date: 9 Dec- 13 Dec 2013
public verge: garden bed/ adj. to front bdy. No.303A Edinburgh Rd [opp. 280 Edinburgh Rd] south of driveway	s/s outcrops tree group	10ag(i)	Fru [1] Bs [1] Ac [1] Ac [1]	50-60+ ?50-60+ 50-60+ 15-20+	9m 6m 18m 9m	12m 7m 10m 3m	good see notes good good	5	low	restricted	T&BPO	remnant native tree group assoc. w. significant rock formations/ outcrops; part of larger group [see 303A listing]; exotic garden; Fru [1]- feature on rock outcrops w. Bs/ Ac; Bs [1]- lopped at base/ arching under Fru X1; regrowth

												<i>A. parramattensis</i> ; gen.native planting.
north of driveway			Ac [2]/ Bs [1] Er [1]	10-15+ 10-15+	4-7m 6m	3-4m 3m	good good					Ac X2/ BsX1/ Er X1- all likely planted.
public verge: adj. to front bdy. & driveway to No.311 Edinburgh Rd/ [opp. 288 Edinburgh Rd]	s/s outcrops tree group	10ar(i)	Ac [1] Ac [1] Gf [1]	80-100+ 40-50+ 30-40+	8m 9m 6m	12m 6m 7m	fair good good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	grass verge; Ac [1]/ fair- multi-trunk (3) old growth spec./ ext. dead wood; remnant natives [<i>Pteridium</i> , <i>Dianella</i> spp.]; Be/ Acacia sp.- planted ; dom. weeds [<i>Nephrolepis</i> , <i>Asparagus</i> spp.].
public verge: adj. to front bdy. & driveway to No.315 Edinburgh Rd/ [opp. 288 Edinburgh Rd]	s/s outcrops tree group	10ar(i)	Cgu [1] Epip [1]	80-100+ 60-80+	12m 9m	8m 7m	see notes fair/ lopped	varies: 4-5 [mainly 5]	low	restricted	T&BPO	grass verge; Cgu [1]/ see notes- past lopping/ cavity; Epip [1]- dead wood; gen. native planting [<i>Euc. botryoides</i>]; remnant natives [<i>Pteridium</i> , <i>Dianella</i> spp.]; weeds [see above].
For road reserve listings between Nos.315 & 325 [incl. rock outcrops/ tor] refer to Public Reserves Nos.317, 319, 321 & 323 Edinburgh Road.												
public verge: adj. to front bdy. No.327 & bdy./ driveway to No.325 Edinburgh Rd/ [opp. 292 Edinburgh Rd]	s/s outcrops tree group	10ag(i)	Ac [1] Ac [1] Ac [1] Ac [1]	80-100+ 60-80+ 30-40+ 20-30+	16m 14m 6m 8m	18m 10m 4m 2m	good good good/ lopped good	varies: 4-5 [mainly 5]	low	contiguous	T&BPO	significant s/s outcrops/ contiguous w. adj. bushland reserve [see listing]; significant remnant tree group; Ac [1]- old growth spec./ some dead wood/ vigorous new growth; remnant natives [<i>Acacia linifolia</i> , <i>A. longifolia</i> [regen.], <i>Dianella</i> , <i>Lomandra</i> spp.]; Pu regrowth Bint/ Be- cultivated origin ; weeds [incl. <i>Acacia saligna</i>].
Refer to adjacent listing for No.327 Edinburgh Road.												
public verge: adj. to front bdy. No.329 [opp. 292 Edinburgh Rd]	s/s outcrops two trees	10ag(i)	Ac [1] Ac [1]	10-15+ <5	7m 1.5m	3m 1m	good good	5	low	restricted	T&BPO	Ac [1]/ <5- likely planted ; exotic/ gen. natives [<i>Casuarina glauca</i>]; weeds [<i>Ficus pumila</i> , <i>Olea</i> sp.].
Refer to adjacent listing for No.329 Edinburgh Road.												
For Ac group adjoining public reserve [WCC] between Nos. 329 & 333 Edinburgh Road - refer to Public Reserves - Area C (iv) - WCC land parcel.												
Survey Date: 22 Apr-26 Apr 2013												
public verge: adj. to upper west bdy. to No.292 Edinburgh Rd [road reserve]	tree group s/s outcrops	10ag(i)	Ac [1] Ac [1]	60-80+ 50-60+	14m 14m	10m 6m	good good	5	low	fragmented	T&BPO	verge/ rock outcrops; highly modified; Ac X2- part of larger fragmented native tree group; pruning for o'head power-lines; listings subject to bdy.survey.
adj. to driveway/ entry to No.292 Edinburgh Rd			Ac [1] Ac [1]	?100-150+ 80-100+	14m 12m	16m 16m	good good					Ac [1]- v. old growth multi-trunk (2) spec.; Ac [1]- old growth spec.
embankment: cnr. Edinburgh Rd & The Tor Walk/ steep slope & rock outcrops adj. to bdy. No.292 Edinburgh Rd [road reserve]	remnant community s/s cutting		Cgu [1] Ac [1] Ac [3] Ac [3] Ac [1] Al [4+]/ Er Ac [4+] Gf	50-60+ 60-80+ 50-60+ 30-40+ 30-40+ up to 5-10+ up to 10-15+ up to 10-15+	7m 14m 8-12m 7-10m 3m up to 3-4m up to 4-5m up to 4m	3m 7m 6-10m 3-4m 4m up to 2m up to 2m varies	fair good good good good/ lopped good/ regen. good/ regen. good/ lopped	varies: 3-5 [mainly 5]	medium-low	contiguous		significant rock outcrops; significant remnant native tree group [Ac dom.]/ mixed age group/ some pruning for o'head power-lines; highly disturbed understorey/ remnant natives [<i>Acacia parramattensis</i> , <i>Grevillea linearifolia</i> , <i>Breynia oblongifolia</i> (old specimens), <i>Crocea</i> , <i>Lomandra</i> , <i>Hardenbergia</i> , <i>Dianella</i> spp.]; good regen. on lower

												slope/ road cutting [The Tor Walk]; Pu regrowth (dom.); dom. weeds [<i>Senna</i> , <i>Cotoneaster</i> , <i>Strelitzia</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.].
Note: For further listings along adjoining lower embankment [below 292 Edinburgh Road] refer to The Tor Walk - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												Survey Date: 11 Nov-15 Nov 2013
public verge: adj. to front bdy. No.304 Edinburgh Road [road reserve]	single tree	10ar(i)	Ac [1]	30-40+	7m	2m	good/lopped	5	low	restricted	T&BPO	grass verge/ highly modified; Ac [1]- 2X stems [1X lopped stem]/ vigorous new growth.
public verge: adj. to front bdy. No.306 Edinburgh Road/ upper slope & rock outcrops [road reserve]	s/s outcrops tree group	10ar(i)/ 10ag(i)	Ac [1] Al [1] Gf [3] Er [1]	60-80+ 20-30+ up to 20-30+ 10-15+	12m 8m up to 4m 5m	12m 5m up to 3-4m 3m	good poor fair/ lopped fair	5	low	restricted	T&BPO	road reserve/ significant rock outcrops/ highly modified; Ac [1]- some dead wood; Al [1]/ poor- die-back (50%); restoration strategy/ mixed local & gen. native planting [incl. Bint/ Be, <i>Hakea</i>, <i>Leptospermum</i> spp.]; also Er X1, <i>Breynia</i> spp.-possibly planted]; weeds [<i>Olea</i> , <i>Nephrolepis</i> , <i>Ehrharta</i> spp.].
lower slope/ rock outcrops adj. to north-western bdy. No.308 Edinburgh Road [road reserve]	s/s outcrops tree group remnant community		Ac [1] Al [6+] Ac/ Fru/ Gf	60-80+ up to 15-20+ up to 5-10+	18m up to 5-7m up to 2-3m	12m up to 5-6m up to 1-2m	good good good/ regen.	varies: 4-5 [mainly 5]				significant rock outcrops; Al [6+]- some pruning for o'head power-lines; mixed local & generic native planting [<i>Acacia</i> <i>elata</i>, <i>A. parramattensis</i>, <i>Kunzea</i>, <i>Lomandra</i>, <i>Dianella</i> spp.]; remnant natives [<i>Smilax</i> sp.]; Pu regrowth; weeds [<i>Asparagus</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> , <i>Ehrharta</i> spp.].
road reserve portion adj. to bdy. & driveway No. 308 Edinburgh Road [cul-de-sac]			Gf [dom.]	up to 20-30+	up to 6-9m	up to 5-7m	good	5				highly modified; dom. exotics/ weeds [<i>Tradescantia</i> , <i>Nephrolepis</i> , <i>Setaria</i> , <i>Cardiospermum</i> , <i>Ageratina</i> spp.]; <i>Cyathea</i> sp./ cultivated origin.
												Survey Date: 18 Nov-22 Nov 2013
public verge: adj. to front bdy. No.343 Edinburgh Rd/ rock outcrops/ garden bed	s/s outcrops tree group	10ag(i)	Ac [1] Ac [1] Er [1] Clto	80-100+ 15-20+ 15-20+ <5	14m 7m 4m <0.5m	18m 6m 6m <0.5m	good lopped good good/ regen.	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	Ac [1]- old growth multi-trunk spec.; native regen. [Clto- <i>Clerodendrum</i> <i>tomentosum</i> , <i>Breynia</i> sp.]; Er [1]/ <i>Banksia spinulosa</i> - likely planted; mixed generic native planting [incl. <i>Eucalyptus microcorys</i> , <i>E. scoparia</i> , <i>Melaleuca</i> sp.].
public verge: adj. to front bdy. & driveway No.357 Edinburgh Rd	single tree	10ag(i)	Ac [1]	50-60+	8m	12m	good	5	low	isolated	T&BPO	exotic garden bed on verge; Ac [1]- cavity in lower trunk; listing subject to boundary survey.
road reserve: central island/ opp. Nos. 359-369 Edinburgh Rd	tree group	10ag(i)	Gf [1] Ac/ Gf/ Ka Fru [2]	30-40+ <5 up to 5-10+	6m up to 2m 1.5m	5m varies 1-3m	v.poor good good	5	low	restricted	T&BPO	landscaped reserve/ highly modified; mixed generic & local native planting [<i>E. robusta</i>, <i>E. sideroxylon</i>, <i>Banksia</i>

												<i>spinulosa, Breynia, Acacia, Dianella</i> spp./ Casg, Ka, Ac, Gf, Fru- all likely cultivated origin]; weeds [<i>Ehrharta</i> sp.]
public verge: adj. to front bdy./ entry to No.369 Edinburgh Rd	two trees	10ag(i)	Al [2]	20-30+	6m	3-4m	lopped	5	low	restricted	T&BPO	garden bed on verge; Al [2]- lopped/ possibly planted.
road reserve/ cul-de-sac: adj. to front bdy. No.371 Edinburgh Rd	two trees s/s outcrops	10ag(i)	Ac [1] Gf [1]	80-100+ 5-10+	16m 3m	24m 2m	good good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	garden beds/ highly modified; Ac [1]- adj. to road pavement/ old growth spec some dead wood in crown; mixed gen. & local native planting [incl. <i>Casg</i> , <i>Lomandra</i> spp.]; possible remnant natives [incl. <i>Breynia</i> , <i>Dianella</i> spp. & <i>Clerodendrum tomentosum</i> / regen.]; Pu regrowth; dom.exotics/ weeds [incl. <i>Cotoneaster</i> , <i>Olea</i> , <i>Nephrolepis</i> , <i>Chlorophytum</i> , <i>Asparagus</i> spp.].
unmade road reserve/ eastern portion between bdy. Nos. 308 & 375 Edinburgh Rd [incl. upper steep slope/ scarp & drainage easement]			Gf/ Pu Bint	up to 20-30+ up to 15-20+	up to 5-7m up to 6-8m	up to 5-6m up to 3-4m	good good	varies: 4-5 [mainly 5]		isolated		highly modified; Gf/Pu [dom.] regrowth/ Bint- likely cultivated origin ; some remnant native g/covers [<i>Lomandra</i> , <i>Dianella</i> , <i>Smilax</i> spp.]; dom. exotics/ weeds [incl. <i>Strelitzia</i> , <i>Ligustrum</i> , <i>Nephrolepis</i> spp.].
Edinburgh Road - Public Reserves:												Survey Date: 16 Dec- 20 Dec 2013
<i>For Tower Reserve listing refer to The Citadel - Public Reserves.</i>												
Castlecrag Escarpment (Castlecrag Group) Public bushland reserve along northern escarpment (including NSW State-owned land, Willoughby City Council land and privately-owned land with foreshore access) is of varying ecological integrity ranging from high (largely intact bushland) to low (cleared/ fragmented and highly modified). Generally, land adjoining rear boundaries to upper residential development or localised areas affected by past clearing/ development and/ or foreshore developments tend to be dominated by exotic, invasive weed species with significantly impacted and modified natural biodiversity values. The steep mid-to lower escarpment, lower foreshore and inter-tidal areas contain contiguous natural bushland (10ar(i)/ 10ag(i)) with high biodiversity and ecological values [public land is scheduled as SEPP 19: Bushland in Urban Areas (Public Open Space) in the Willoughby City Bushland Plan of Management (2000)]. This bushland has varying levels of disturbance, fragmentation and weed invasion. All of this bushland/ escarpment is subject to SREP 23: Outstanding Visually Prominent Natural Landscapes and is currently under a weed management, bush regeneration and restoration strategy (including ecological fire management). Castlecrag Escarpment listings are divided into Areas A-C [refer to aerial photos] as follows:												
Area A (i): bushland reserve on NSW (State) land between Nos.169 & 173 Edinburgh Rd/ north-eastern scarp/ rock outcrops [adj. to bdy. No.173]	s/s outcrops s/s scarp core bushland community	10ar(i)	Cgu/ Ac/ Era Er/ Al/ Ka	up to 80-100+ up to 20-30+	up to 9-14m up to 4-9m	varies varies	good good	varies: 3-5	medium-low	contiguous	SEPP 19 /T&BPO SREP 23	significant s/s scarp & rock outcrops incl. overhang; high biodiversity/ good regen. assoc w.tor/ rock outcrops; Cgu/ Ac/ Era [co-dom.]- incl.old growth specs.; natives [Ple- <i>Persoonia levis</i> , <i>Acacia suaveolens</i> , <i>A. ulicifolia</i> , <i>Pimelea linifolia</i> , <i>Epacris longiflora</i> , <i>Actinotus helianthi</i> , <i>Lomandra glauca</i> ssp. <i>glauca</i> , <i>L. longifolia</i> , <i>Xanthosia tridentata</i> , <i>Dianella revoluta</i> , <i>Notelaea</i> , <i>Polyscias</i> , <i>Crowea</i> , <i>Lepidosperma</i> ,
upper scarp/ western edge & core area			Cgu/ Ac/ Era Esi Ple Er/ Al/ Ka	up to 80-100+ up to 20-30+ ?60-80+ up to 20-30+	up to 9-14m up to 9m up to 3m up to 4-9m	varies up to 8m up to 2m varies	good fair/ poor good good	varies: 1-2 [mainly 1]	high			

												<i>Caustis, Austroanthonia, Entolasia, Pteridium, Smilax</i> spp.]; min. weeds.
steep gully adj. to scarp & bdy. to No.169 Edinburgh Rd INCOMPLETE DATA SET		10ag(i)										
Area A (ii): NSW (State) land-upper scarp & rock outcrops adj. to rear boundary to No.177 Edinburgh Road	s/s outcrops s/s scarp tree group	10ar(i)/ 10ag(i)	Ac [2] Ac [1] Ka [1] Al [1]	50-60+ 80-100+ 20-30+ 20-30+	9-10m 12m 6m 8m	7-9m 12m 6m 5m	fair/ good good good good	varies: 2-3	high-medium	contiguous	SEPP 19 /T&BPO SREP 23	significant s/s scarp & rock outcrops; site contains old chimney on rock outcrop; varying level of disturbance/ weed invasion; natives [<i>Xanthorrhoea, Pteridium, Lomandra</i> spp.]; Ac/ Epip [co-doms.] lower slope; Pu regrowth; native <i>Cissus hypoglauca</i> .
lower scarp/ rock outcrops below No.177 Edinburgh Rd	remnant community		Ac/ Epip Al [dom.]	up to 60-80+ up to 20-30+	up to 14-16m up to 9-10m	varies varies	good good	varies: 2-5	high-low			
Area A (iii): NSW (State) land-upper slopes, scarp & rock outcrops adj. to rear boundary Nos.183-189 Edinburgh Rd	s/s outcrops s/s scarp tree group remnant community	10ar(i)/ 10ag(i)	Ac [dom.] Al/ Er/ Fru Cali	up to 40-50+ up to 20-30+ ?40-50+	up to 14m up to 7-10m up to 3m	varies varies up to 3m	good regrowth good	varies: 3-5 [mainly 5]	medium-low	restricted	adj.SEPP 19 /T&BPO SREP 23	significant s/s scarp & rock outcrops; largely cleared/ highly modified; exotic gardens/ ext. weed invasion; dead [standing] stags; <i>Callistemon linearis</i> [Cali]- significant remnant native group/ assoc.w rock outcrops below No.189; native colonisers [<i>Pteridium, Cayratia</i> spp.]; Pu regrowth; mixed gen./ local native planting [Bint, <i>Acacia</i> spp.]..
Area A (iv): NSW (State) land-upper slope/ rock outcrops between Nos.193 & 197 Edinburgh Rd/ adj. to steps	tree group s/s outcrops	10ar(i)	Ac [2] Ac [2] Ac [1] Eha [1] Ac/Er/Al	50-60+ 40-50+ 15-20+ 10-15+ up to 10-15+	14-15m 15-16m 8m 4m up to 5-8m	9-12m 5-7m 7m 2m varies	good good good good good	5	low	restricted	adj.SEPP 19 /T&BPO	Ac X4 [group]/ some dead wood & competition w. planted exotics; Pu regrowth; weeds [<i>Nephrolepis</i> sp.]; Ac/ Eha/ Er/ Al-all likely planted ; mixed overlay of older generic spp./ now self-seeding [incl. <i>Eucalyptus microcorys, E. botryoides</i> , Bint] & local native spp. restoration/ unknown provenance. [<i>Hakea, Dianella, Lomandra</i> spp.]; no remnant natives present; exotics.
lower lawn area between Nos. 191 & 197 Edinburgh Rd			Era [1] Ac [1] Era [1]	60-80+ 60-80+ 60-80+	14m 15m 15m	10m 8m 12m	fair good good	varies: 4-5 [mainly 5]				Era [1]/ fair- possibly old growth spec./ ext. dead wood/ die-back (20%); Ac [1] & Era [1]/ good- some dead wood.
top of scarp/ rock outcrops between Nos. 191 & 197 Edinburgh Rd	s/s scarp remnant community		Ceg [1] Ac [1]	?40-50+ 5-10+	5m 1.5m	2m 1m	good good/ regen.	varies: 3-5	medium-low			significant s/s scarp & rock outcrops; remnant native g/covers +also planted [<i>Lomandra, Dianella</i> pp.]; Ceg [1]- regrowth on old stump; <i>Pteridium</i> (dom.), <i>Dodonaea, Cayratia</i> spp.].
Area A (v): 201 Edinburgh Rd-vacant block/ former residence WCC land [top of scarp]	s/s scarp	10ar(i)						5	low	restricted	adj.SEPP 19 /T&BPO	significant s/s scarp/ lookout; weeds [<i>Phyllostachys</i> sp.]; native g/covers colonising site [<i>Dichelachne, Juncus</i>

												spp.]; mature gen. native planting [incl. <i>Corymbia/ Toona</i> spp.].
Area B (i): NSW (State) land & WCC land parcel- upper slopes/ rock outcrops adj. to rear bdy. Nos.203-205 & 209-223 Edinburgh Rd	s/s scarps s/s outcrops remnant community	10ar(i)/ 10ag(i)	Ac/ Era/ Fru Ceg/ Al/ Er	up to 50-60+ up to 20-30+	varies varies	varies varies	varies varies	varies: 3-5 [mainly 5]	medium-low	fragmented	SEPP 19 /T&BPO SREP 23	highly fragmented/ disturbed bushland; remnant native trees; Pu regrowth; dom. weeds [<i>Lantana, Asparagus, Ochna, Rumex</i> spp.]; current weed management/ regen. strategy; prep. for controlled broad area burn.
mid- to lower steep slope/ scarps & rock outcrops to foreshores	core bushland community		Ac/ Epip Al [dom.] Ceg/ Al/ Er Bs/ Xa	up to 80-100+ up to 20-30+ varies up to 80-100+	up to 16-22m up to 9-10m varies varies	up to 22m up to 7m varies varies	good good good/ regen. good	varies: 1-5 [mainly 1-2]	high-low	contiguous		significant s/s scarps & rock outcrops; Aboriginal archaeological site NPWS 45-6-1380 [shelter/ midden site]; core bushland/ high biodiversity mid-to lower steep slope [incl. <i>Xanthorrhoea, Persoonia, Pomaderris, Notelaea, Phebalium, Leucopogon, Polyscias, Lepyrodia, Chordifex, Schoenus, Lomatia, Lepidosperma, Patersonia, Themeda, Calochlaena, Lomandra Xanthosia, Anisopogon, Entolasia, Smilax, Dianella</i> spp.]; varying level of weeds [incl. <i>Lantana, Phyllostachys, Asparagus, Genista</i> spp.].
lower foreshores/ rock outcrops			Casg/ Fru	up to 50-60+	varies	varies	good					
<i>Note: Narrow strips of public land between foreshore and rear bdy. Nos.205 & 209 Edinburgh Road should be scheduled as SEPP 19: Bushland in Urban Areas.</i>												
Area B (ii): Stoker Playground [Castlecrag Northern Escarpment] WCC land parcel- upper slopes/ rock outcrops between No.223 [west bdy.] & right-of-way Nos.233A/ 239 Edinburgh Rd lower playground/ lawn & rock outcrops	tree group s/s outcrops	10ar(i)/ 10ag(i)	Epip [1] Ac [1] Cgu [1] <i>Eha/ Crho</i> <i>Era [2]</i> <i>Era [2]</i> <i>Fru [1]</i> <i>Ac/ Era/ Fru</i> <i>Al/ Er/ Be</i>	80-100+ 40-50+ 20-30+ <i>up to 10-20+</i> <i>40-50+</i> <i>15-20+</i> <i>15-20+</i> <i>up to 5-10+</i> <i>up to 5-10+</i>	10m 9m 9m <i>up to 7-9m</i> <i>14-15m</i> <i>9-10m</i> <i>7m</i> <i>up to 7-8m</i> <i>up to 6-8m</i>	12m 4m 3m <i>varies</i> <i>10-12m</i> <i>4-6m</i> <i>7m</i> <i>varies</i> <i>varies</i>	good fair good <i>good</i> <i>good</i> <i>good</i> <i>good</i> <i>good</i> <i>good</i>	5	low	fragmented	adj.SEPP 19 /T&BPO	highly modified/ some remnant native trees; Epip [1]- old growth spec./some dead wood; Ac [1]/ fair-dead wood/ adventitious growth; current restoration/ regen. strategy; mixed local & generic natives [incl. <i>Euc.pilularis/ E. robusta</i> ; also possibly <i>Corymbia calophylla</i> (Marri- West Aust.)/fair-ext. dead wood die-back [NOT Cgu X1]; <i>immature Era X4/ Fru [1] & Ac/ Eha/ Crho/ Al Er/ Be & Lomandra, Dianella</i> spp.-all likely planted [unknown provenance].
<i>For public verge listings/ planting adjacent to Stoker Playground refer to Edinburgh Road - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
Area B (iii): steep upper slope/ rock outcrops below playground [WCC land parcel]	s/s scarps s/s outcrops remnant community	10ag(i)	Ac/ Epip Ceg/ Al/ Er	up to 80-100+ up to 20-30+	up 14-16m varies	varies varies	good varies	varies: 2-5	high-low	fragmented	SEPP 19 /T&BPO SREP 23	varying level of disturbance/ clearing on upper slope; remnant community grading to core bushland/ current weed management/ regen.strategy; prep. for controlled broad area burn; Brush Turkey (<i>Alectura lathamii</i>) / nesting mound.on upper slope.
mid- to lower steep slope/	core		Ac/ Epip	up to 80-100+	up to 16-22m	up to 22m	good	varies: 1-5	high-low	contiguous		core bushland/ high biodiversity mid-to

scarps & rock outcrops to foreshores [adj. to steps]	bushland community		Al [dom.] Ceg/ Al/ Er Ppi/ Had Bs/ Xa	up to 20-30+ varies up to 20-30+ up to 80-100+	up to 9-10m varies up to 4-6m varies	up to 7m varies varies varies	good good/ regen. good good	[mainly 1-2]				lower steep slope [<i>Persoonia pinifolia</i> , <i>Pomaderris</i> , <i>Phebalium</i> , <i>Notelaea</i> , <i>Leucopogon</i> , <i>Polyscias</i> , <i>Breynia</i> , <i>Xanthorrhoea</i> , <i>Grevillea</i> , <i>Actinotus</i> , <i>Lepyrodia</i> , <i>Chordifex</i> , <i>Schoenus</i> , <i>Lepidosperma</i> , <i>Gahnia</i> , <i>Themeda</i> , <i>Pteridium</i> , <i>Calochlaena</i> , <i>Lomandra</i> <i>Xanthosia</i> , <i>Anisopogon</i> , <i>Entolasia</i> , <i>Smilax</i> , <i>Dianella</i> spp.]; area under ext. weed management/ bush regen. strategy; some weeds [incl. <i>Erythrina</i> , <i>Lantana</i> , <i>Phyllostachys</i> , <i>Genista</i> spp.].
lower foreshores/ rock outcrops adj. to cottages & terraced lawns			Casg/ Fru	up to 50-60+	varies	varies	good	varies: 3-5	medium-low	fragmented		
Area B (iv): NSW (State) land & WCC land parcels- upper slopes/ rock outcrops adj. to rear bdy. Nos.241-299 Edinburgh Rd	s/s scarps s/s outcrops remnant community	10ar(i)/ 10ag(i)	Ac/ Epip/ Fru Ceg/ Al/ Er	up to 60-80+ up to 20-30+	varies varies	varies varies	varies varies	varies: 3-5 [mainly 5]	medium-low	restricted	SEPP 19 /T&BPO SREP 23	largely cleared/ highly fragmented bushland; remnant native trees; Pu regrowth; dom. weeds/ thicket [incl. <i>Phyllostachys</i> , <i>Lantana</i> , <i>Asparagus</i> , <i>Senna</i> , <i>Ochna</i> , <i>Nephrolepis</i> , <i>Rumex</i> spp.]; phased weed management/ bush regen. strategy.
mid- to lower steep slope/ scarps & rock outcrops to foreshores	core bushland community		Ac [dom.] Al [dom.] Ceg/ Al/ Er Bs/ Xa	up to 80-100+ up to 20-30+ varies up to 80-100+	up to 18-25m up to 9-10m varies varies	up to 22m up to 7m varies varies	good good good/ regen. good	varies: 1-5 [mainly 1-2]	high-low	contiguous		significant s/s scarps & rock outcrops; significant cultural elements dating from Inter-war period [incl s/s steps]; grading to core bushland/ high biodiversity mid- to lower steep slope [incl. <i>Persoonia</i> , <i>Pomaderris</i> , <i>Phebalium</i> , <i>Notelaea</i> , <i>Leucopogon</i> , <i>Polyscias</i> , <i>Breynia</i> , <i>Xanthorrhoea</i> , <i>Grevillea</i> , <i>Actinotus</i> , <i>Lepyrodia</i> , <i>Chordifex</i> , <i>Schoenus</i> , <i>Lepidosperma</i> , <i>Gahnia</i> , <i>Pteridium</i> , <i>Themeda</i> , <i>Calochlaena</i> , <i>Lomandra</i> <i>Xanthosia</i> , <i>Anisopogon</i> , <i>Entolasia</i> , <i>Smilax</i> , <i>Dianella</i> spp.]; Pu regrowth; varying level of weeds [<i>Phyllostachys</i> , <i>Lantana</i> , <i>Arundo</i> spp.].
lower foreshores/ rock outcrops			Casg/ Fru	up to 50-60+	varies	varies	good					
Note: Narrow strips of public land between foreshore and rear bdy. Nos.241, 245, 249, 261, 271, 275 & 289-297 Edinburgh Rd should be scheduled as SEPP 19: Bushland in Urban Areas.												
												Survey Date: 18 Nov-22 Nov 2013
Area C (i): NSW (State) land/ public reserve - rock outcrops adj. to road reserve & No.315 Edinburgh Rd	s/s outcrops remant community	10ar(i)	Ac [dom.] Cgu/ Epip Al/ Er/ Had	up to 80-100+ up to 80-100+ up to 20-30+	up to 8-14m up to 8-12m up to 2-8m	varies varies varies	good good good	varies: 2-4	high-low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant rock outcrops; varying level of disturbance/ weed invasion; Bint- likely cultivated origin ; dom. weeds; higher biodiversity on northern rock outcrops [see following listing].
public reserve - rock outcrop [tor] adj. to road reserve	s/s outcrops s/s scarp		Ac [dom.] Cgu/ Epip	up to 80-100+ up to 80-100+	up to 8-14m up to 8-12m	varies varies	good good	varies: 1-2	high	contiguous		significant rock outcrops/ formations [tor]; high biodiversity [<i>Leptospermum</i>

[between Nos.315 & 325 Edinburgh Rd]	core bushland community		Al/ Er/ Had	up to 20-30+	up to 2-8m	varies	good					<i>trinervium, Actinotus helianthii, Acacia suaveolens, Dianella revoluta, Crowea saligna, Xanthosia tridentata, Cissus hypoglauca, Dodonaea, Lomandra</i> (dom.), <i>Austrodanthonia, Pomax, Smilax</i> spp.]; weeds [<i>Asparagus</i> spp./ seedlings]; area would respond to minimal disturbance bush regen. strategy; subject to bdy. survey.
<i>Refer to adjoining listing for 325 Edinburgh Road.</i>												
public reserve - upper slope/ rock outcrops Nos.317, 319, 321 & 323 Edinburgh Rd [between Nos.315 & 325 Edinburgh Rd]	remnant community	10ar(i)/ 10ag(i)	Ac [dom.] Epip [dom.] Al/ Er/ Ceg Fru	up to 80-100+ up to 80-100+ up to 20-30+ up to 40-50+	up to 18-25m up to 18-22m up to 4-8m up to 9-10m	up to 22m up to 22m varies up to 8-12m	varies varies good good	varies: 2-5	high-low			varying level of disturbance/ modification; significant rock outcrops; Ac/ Epip-incl. old growth specs.; Pu regrowth [dom.]; min.weeds/ under bush regen./ restoration strategy; dead stags; natives [incl. <i>Xanthorrhoea, Lomandra</i> [dom.], <i>Dianella, Entolasia, Smilax</i> spp.].
mid- steep slope/ rock outcrops adj. to old s/s steps			Ac/ Epip Crho Ceg Had Crho/ Al/ Er Pu [dom.]	up to 80-100+ up to 60-80+ up to 60-80+ up to 50-60+ up to 20-30+ up to 40-50+	up to 18-25m up to 14m up to 6-7m up to 7-9m up to 4-8m up to 6-7m	up to 22m up to 4m up to 4-5m up to 4-5m varies varies	varies varies good good good regrowth	varies: 1-2	high			significant rock outcrops; significant cultural elements dating from Inter-war period [incl s/s steps]; grading to core bushland/ high biodiversity [<i>Persoonia pinifolia, P. levis, Grevillea linearifolia, Xanthorrhoea, Lasiopetalum, Caustis flexuosa, C. pentandra, Lepyrodia scariosa, Schoenus melanostachys, Austrostipa rudis. Arthropodium milleflorum, Anisopogon avenaceus, Lomatia silaifolia, Lepidosperma, Leucopogon, Chordifex, Phebalium, Themeda, Calochlaena, Lomandra Xanthosia, Pteridium, Entolasia</i> spp.]; Pu regrowth [dom.]; minimal weeds.
<i>Note: NSW (State) land/ public reserve Nos.317, 319, 321 & 323 Edinburgh Rd should be scheduled as SEPP 19: Bushland in Urban Areas.</i>												
Area C (ii): WCC land parcel/ lower steep slope/ steps above cottage [subject to bdy. survey]	s/s outcrops remnant community	10ag(i)	Ac [dom.] Ceg Pu [dom.] Gf/ Pu [dom.] Crho/ Ceg	up to 80-100+ up to 80-100+ up to 20-30+ up to 40-50+ up to 30-40+	up to 18-25m up to 6-8m up to 6-7m up to 7-10m up to 4-8m	up to 22m up to 8-9m varies varies varies	varies good regrowth regrowth good	varies: 2-4	low-high	fragmented		varying level of disturbance/ modification; significant rock outcrops; Ceg- incl. old growth multi-trunk specs.; natives [<i>Calochlaena, Smilax</i> spp.]; Pu/ Gf [dom.] regrowth; dom.weeds [<i>Lantana</i> [dom.], <i>Asparagus, Nephrolepis</i> spp.].
lower steep slope/ rock outcrops steps adj. to cottage & foreshores [adj. to bdy. Nos.321-323 [public reserve] & 325 Edinburgh Rd]			Casg	up to 30-50+	up to 12m	varies	good	varies: 4-5	low		SEPP 19 /T&BPO SREP 23	Casg- along foreshore edge; dom. weed thicket [<i>Phyllostachys</i> [dom.], <i>Lantana, Ochna, Asparagus, Setaria, Nephrolepis, Tradescantia</i> spp.].
Area C (iii): NSW (State) land/	s/s outcrops	10ag(i)	Pu/ Gf	up to 40-50+	up to 7-8m	varies	regrowth	varies: 4-5	low	fragmented	T&BPO	significant cultural heritage [Inter-war

public reserve adj. to rear bdy. No.327 Edinburgh Rd [between Nos.325 & 329 Edinburgh Rd]/ upper level/ flat site of demolished cottage [chimney standing]	remnant community											SREP 23	period]/ demolished cottage, s/s walls & steps; Pu/ Gf regrowth; remnant natives [<i>Hypolepis</i> spp.]; weeds [<i>Ligustrum</i> sp.]; current bush regen./ restoration [Torquay Bushcare Group].
lower scarp/ rock outcrops to foreshore adj. to bdy. No.329 Edinburgh Rd [lower cottage/ above boathouse]	s/s scarp tree group		Ac [1] Pu [dom.]	80-100+ up to 40-50+	18m up to 7-10m	18m varies	fair regrowth	5	low	restricted			significant s/s outcrops; highly modified; weed thicket [<i>Phyllostachys</i> sp.(dom.), <i>Asparagus</i> spp.]; Pu regrowth [dom.]; Ac [1]- old growth multi-trunk spec./ext. die-back (40%)/ vigorous new growth; listing subject to bdy. survey.
rocky foreshore/ above inter-tidal area			Casg	up to 30-50+	up to 12m	varies	good						<i>Casuarina glauca</i> - on foreshore edge; dom. weeds [see above].
Area C (iv): WCC land parcel/ public reserve between Nos. 329 & 333 Edinburgh Road/ upper slope/ steps to roadway [incl. road reserve]	tree group	10ag(i)	Ac [1] Ac [2] Ac [3] Ac [1] Er [1]/ Al [1] <i>Ac/ Ka</i> <i>Er/ Cal</i>	80-100+ 60-80+ 30-50+ 10-15+ 10-15+ <i><5</i> <i><5</i>	14m 14-15m 8-14m 6m 3-4m <i>up to 3m</i> <i>up to 3m</i>	15m 8-12m 5-7m 2m 4m <i>varies</i> <i>varies</i>	good see notes good good/ lopped good/ lopped <i>good</i> <i>good</i>	varies: 4-5 [mainly 5]	low	fragmented	SEPP 19 /T&BPO SREP 23	area under regen./ restoration strategy; Ac [2]- 1 X tree damaged trunk/ lopped; Ac/ Al- immature/ lopped under wires; highly modified/ successive overlays; <i>gen. native planting [Euc. microcorys/ E. saligna, Melia</i> spp.]; ext.local native planting [<i>Acacia implexa, A. binervia, Acacia</i> spp., <i>Callitris, Ozothamnus, Tristaniopsis, Grevillea</i> spp. & <i>Ac/ Kal Er/ Cal</i>]- all likely planted [unknown provenance]; remnant natives [incl. <i>Hypolepis, Histiopteris, Oplismenus</i> & possibly <i>Breynia, Geitonoplesium, Lomandra, Dianella</i> spp.]. Brush Turkey (<i>Alectura lathamii</i>) / nesting mound.on mid-slope. Ac [2]- v. old growth specs./ on steep mid-slope; significant remnant native Ac/ Epip group.	
steep mid-slope [top of scarp]	s/s scarp s/s outcrops remnant community tree group		Ac [2] Ac [1] Epip [1] Epip [1] Al [group] Al/ Bs/ Ka Gf/ Fru	?100-150+ 60-80+ 50-60+ 30-40+ up to 30-40+ up to 5-10+ up to 5-10+	22-25m 16m 18m 16m up to 9m up to 2-3m up to 2-3m	20-22m 16m 10m 7m varies varies varies	good good good good v.poor good good	varies: 3-5 [mainly 5]	medium-low				
lower scarp to foreshore			Fru [1] Ac [1] Crho [2]	30-40+ 80-100+ up to 30-40+	6m 16m up to 7m	8m 16m up to 3m	good good fair/ good	varies: 4-5 [mainly 5]	low				significant s/s/ scarp & rock outcrops; Fru [1]- on scarp/ multi-stemmed spec. also <i>Dendrobium speciosum</i> var. <i>speciosum</i> ; Ac [1]/ good- old growth spec./ on scarp above lower terrace; Ac [1]/ poor- old growth spec./ above HWM/ ext. dead wood/ new growth; natives assoc. w. scarp/ rock outcrops [<i>Xanthorrhoea, Smilax, Breynia</i> spp.]; dom. exotics/weeds [<i>Erythrina, Yucca,</i>
lower terrace & rock outcrops to foreshore			Ac [1] Casg	80-100+ 5-10+	18m up to 5m	16m varies	poor good						

Reserve listings are divided into Areas A-C [refer to aerial photos] as follows:												
Area A: upper mown grass/ landscaped areas & rock outcrops adj. to Edinburgh Rd	s/s outcrops tree group	10ar(i)/ 10ag(i)	Ac [1]	50-60+	7m	7m	good/ lopped	5	low	restricted	T&BPO SREP 23	highly modified reserve/ landscaping; steep slope/ significant rock outcrops; dom. exotics/ weeds; Ac [1]- pruned for o'head power-lines; Ac [1]- multi- trunk spec.; Esi [1]- on rock shelf/ ext. dead wood/ crown die-back (80%)/ basal regrowth; restoration planting (unknown provenance) [incl. Ac/ Cgu/ Ka/ <i>Acacia</i> , <i>Themeda</i> spp.]; no native understorey/ ground layer.
Area B: mid- to upper steep slope/ rock outcrops	remnant community		Ac [1]	40-50+	7m	5m	good					varies: 4-5 [mainly 5]
			Fru [1]	?20-30+	1m	1m	lopped/ regrowth					
			Gf [1]	60-80+	9m	7m	good					
Area C: lower steep slope/ terraces & steps to foreshore/ rock outcrops [adj. to bdy. No.1A The Tor Walk]		Gf [2]	5-10+	2-4m	1.5-2m	good	5	isolated	significant rock outcrops; Pu regrowth; dom. exotics/ weed thicket to shoreline [incl. <i>Lantana</i> , <i>Phyllostachys</i> , <i>Olea</i> , <i>Ligustrum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Ipomoea</i> , <i>Hedera</i> spp.]; no access.			
		Esi [1]	60-80+	6m	8m	v.poor						
		Epip [1]	30-40+	4m	9m	good						
		Ac [1]	30-40+	8m	6m	v.poor						
			Al [1]	40-50+	7m	6m	good					
			Al [7+]	up to 15-20+	4-7m	3-6m	good					
			Er [1]	?40-50+	3m	4m	fair					
			Er [3+]	up to 10-15+	1.5-5m	up to 2m	good					
			Fru	<5	<1m	<1m	good					
Knight Place - Residential Properties [private right-of-way]:												Survey Date: 12 Dec-16 Dec 2011
Knight Place is a private right-of-way shared by Nos. 252 Edinburgh Road & 2-11 Knight Place. For all listings refer to following properties.												
5 Knight Place: rear garden/ scarp & rock outcrops contiguous w. No.6 Knight Pl. & rear bdy. No.56 Linden Way	s/s scarp s/s outcrops two trees remnant community	10ar(i)	Ka [1] Ka [1] Ac/ Ka/ Fru	40-50+ 5-10+ <5	4m 3m <0.5m	7m 2m <0.5m	good good good/ regen.	varies: 2-5	high-low	restricted	T&BPO	exotic garden; significant s/s scarp & rock outcrops; natives [incl. <i>Epacris</i> <i>longiflora</i> , <i>Brachyloma daphnoides</i> , <i>Gleichenia</i> , <i>Pteridium</i> , <i>Lomandra</i> , <i>Dianella</i> spp.]; good natural regen./ assoc.w. rock outcrops; varying level of weeds [<i>Lantana</i> , <i>Ageratina</i> spp.].
6 Knight Place: front garden/ lawn area adj. to driveway	s/s scarp s/s outcrops	10ar(i)	Era [1]	40-50+	10m	8m	fair	5	low	fragmented	T&BPO	exotic terraced garden; Era [1]/ fair- crown die-back & dead wood/ new epicormic growth; access to upper scarp/ owner confirmed survey bdy.;
rear garden/ northern scarp & rock outcrops contiguous w. No.5 Knight Pl. & rear bdy. Nos.54 & 56 Linden Way	tree group remnant community		Esi [2] Ka/ Fru Abin [1]	20-30+ <5 ?30-40+	9-10m <0.5m 6m	9-10m <0.5m 12m	good good/ regen. good	varies: 3-5	medium-low	restricted		significant s/s scarp & rock formations; remnant natives [<i>Epacris longiflora</i> , <i>Brachyloma daphnoides</i> , <i>Gleichenia</i> , <i>Pteridium</i> , <i>Lomandra</i> , <i>Dianella</i> spp.]; good natural regen.; local & gen.native planting [incl. Bintl/ <i>Acacia binervia</i> [1]- likely cultivated]; exotics/ weeds [incl.

												<i>Asparagus</i> spp.].
8 Knight Place: front garden/ scarp/ road cutting [upper level] adj. to right-of-way & bdy. to No.9 Knight Place	s/s scarp s/s outcrops s/s cutting single tree remnant community	10ar(i)	Ac [1]	40-50+	7m	5m	v.poor	varies: 3-5	medium-low	isolated	T&BPO	exotic garden; no access; significant s/s scarp, rock outcrops & road cutting; Ac [1]-ext. die-back (80%)/ dead wood/ new epicormic growth/ recommend remove <i>Hedera</i> sp. on trunk; dom. weeds [incl. <i>Cotoneaster</i> , <i>Nephrolepis</i> , <i>Asparagus</i> spp.]; remnant natives [incl. <i>Platysace linearifolia</i> , <i>Epacris</i> <i>longiflora</i> , <i>Lomandra</i> , <i>Opercularia</i> , <i>Austrodanthonia</i> spp.]; Pu regrowth; subject to boundary survey.
												Survey Date: 8 Apr-12 Apr 2013
12 Knight Place: rear garden/ lower steep slope adj. to bdy. bushland reserve [Castlehaven Reserve & Extension]	two trees	10ag(i)	Epip [1] Al [1]	60-80+ 15-20+	16m 6m	15m 3m	good good	5	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	steep slope/ exotic garden; Epip [1]- adj. to bdy.No.8C The Bulwark/ subject to bdy. survey; Al [1]- clothed in native <i>Cissus hypoglauca</i> ; recent clearing/ dom.weeds [<i>Asparagus</i> , <i>Nephrolepis</i> spp.]; gen. native rainforest planting [<i>Hibiscus tiliaceus</i> , <i>Polyscias</i> , <i>Acmena</i> , <i>Cyathea</i> spp.]; no access; adjoins Area C(iv) [see listing in <i>The Scarp -</i> <i>Public Reserves</i>].
Knight Place - Road Reserves, Drainage Easements & Public Pedestrian Linkages [private right-of-way]:											Survey Date: 12 Dec-16 Dec 2011	
<i>For listings along private right-of-way [lower access road] linking to The Bulwark refer to The Bulwark - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
Linden Way - Residential Properties:											Survey Date: 8 Apr-12 Apr 2013	
3A Linden Way: right-of-way/ lower slope	single tree	10ag(i)	Gf [1]	30-40+	8m	6m	good	5	low	restricted	T&BPO	exotic garden/ terraced; Gf [1]- some pruning; no access.
4 Linden Way: front garden/ adj. to driveway	two trees	10ag(i)	Era [1] Ac [1]	50-60+ 50-60+	9m 16m	9m 12m	good good	5	low	restricted	T&BPO	exotic garden; Era [1]- adj. to driveway/ some past pruning; Ac [1]- adj. to Cheyne Walk/ south bdy.
5 Linden Way: front garden/ adj. to bdy. No.7 Linden Way	two trees	10ag(i)	Ac [1]	?100-150+	22m	20m	good	5	low	restricted	T&BPO	exotic garden; Ac [1]- significant old growth specimen/ some dead wood in crown; Pu regrowth.
rear garden/ upper level courtyard adj. to house	remnant community		Cgu [1]	60-80+	22m	9m	good	varies: 4-5				Cgu [1]- possibly old growth specimen; remnant natives [<i>Calochlaena</i> sp.]; subject to bdy. survey; no access.
11 Linden Way: front garden/ lower slope/ adj. to steps	single tree s/s outcrops	10ag(i)	Ac [1]	60-80+	12m	12m	good	5	low	restricted	T&BPO	exotic garden; Ac [1]- some dead wood in crown/ competition w. exotic trees.
16 Linden Way "Penallow" [26 Linden Way]: front garden/ upper	tree group	10ag(i)	Ac [1]	15-20+	7m	4m	good	5	low	restricted	T&BPO	exotic garden/ large block w. house; no access; Ac [1]- western driveway;

[illegible]

												Survey Date: 12 Dec-16 Dec 2011
27 Linden Way: rear garden/ upper level adj. to bdy. Linden Way Reserve	s/s outcrops single tree	10ar(i)	Esi [1]	?20-30+	7m	7m	poor	5	low	fragmented	adj.SEPP 19 /T&BPO	exotic garden/ mulched bed; significant s/s outcrops; Esi [1]- ext. dead wood/ die-back (50%)/ new epicormic growth.
												Survey Date: 8 Apr-12 Apr 2013
28 Linden Way: right-of-way/ between upper eastern driveway & bdy. to No. 26 Linden Way	two trees	10ag(i)	Ac [1] Ac [1]	60-80+ 60-80+	12m 10m	10m 7m	good good/ lopped	5	low	restricted	T&BPO	exotic garden/ right-of-way; Ac [1]/ lopped for o'head power-lines/ competition with cultivated <i>Syzygium paniculatum</i> ; subject to bdy. survey.
30 Linden Way: front garden/ upper level/ steep slope	single tree	10ag(i)	Ac [1]	60-80+	9m	7m	see notes	5	low	restricted	T&BPO	exotic terraced garden; Ac [1]- sparse canopy/ some dead wood in crown w. bracket fungi at base/ recommended arborist inspection ; Pu regrowth; dom. weeds [incl. <i>Nephrolepis</i> sp.].
32 Linden Way: front garden/ upper scarp/ steep slope adj. to front bdy. and verge	tree group s/s scarp s/s outcrops	10ar(i)/ 10ag(i)	Fru [1]	80-100+	8m	14m	good	5	low	restricted	T&BPO	exotic garden; Fru [1]-old growth multi- stemmed [12+] specimen./ pruned for o'head power-lines.
rear garden/ steep slope & rock outcrop adj. to right-of-way	remnant community		Ac [2] Ceg [1] Ac	40-50+ 20-30+ <5	9-10m 3m <1m	6-8m 2m <0.5m	good good good/ regen.	varies: 3-5 [mainly 5]	medium-low			significant remnant community assoc. w. significant rock outcrops; high bio- diversity/good regen. [<i>Crowea saligna</i> , <i>Acacia terminalis</i> , <i>Grevillea linearifolia</i> , <i>Calochlaena</i> (dom.), <i>Pteridium</i> spp.]; dom. weeds on lower steep slope [incl. <i>Rubus</i> agg., <i>Lantana</i> , <i>Ageratina</i> spp.]; <i>Cyathea</i> sp./ cultivated origin.
34 Linden Way: front garden/ upper scarp/ rock outcrops adj. to bdy. No.36 Linden Way	s/s outcrops	10ar(i)						5	low	restricted	T&BPO	significant rock outcrops; Ac [sapling]/ Ka +Acacia implexa, Themeda sp./ all likely planted ; dom. exotics/ weeds [incl. <i>Cotoneaster</i> sp.]; Pu regrowth.
												Survey Date: 12 Dec-16 Dec 2011
37 Linden Way: front garden/ adj. to entry	single tree	10ar(i)	Era [1]	?100-150+	10m	12m	good	5	low	isolated	T&BPO	exotic garden/ lawn; Era [1]-old growth multi-trunk [2] sculptural spec./ min. pruning history; planted <i>Lomandra</i> sp.
												Survey Date: 8 Apr-12 Apr 2013
38 Linden Way: front garden/ adj. to upper driveway [right-of-way]	two trees	10ar(i)/ 10ag(i)	Ac [1] Ac [1]	80-100+ 20-30+	12m 4m	12m 2m	good good/ lopped	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	large block/ exotic garden & lawns on upper level; Ac [1]- old growth spec./ some pruning; no access.
scarp & rock outcrops [upper western bdy. adj. to No.46 Linden Way]	s/s scarp s/s outcrops tree group	10ag(iii)	Pu [dom.]	up to 30-40+	up to 7-8m	up to 6-7m	regrowth	varies: 4-5 [mainly 5]		fragmented		significant s/s scarp & rock outcrops; old dead standing trees/ stags; highly disturbed/ modified; weed thicket;
steep slope/ adj. to western bdy. [No.46 Linden Way] extending to	remnant community		Ceg [1] Ceg [5+]	80-100+ up to 40-50+	7m up to 4-6m	4m up to 2-3m	good good					significant remnant group/ native ferns assoc.w. scarp/ overhang [incl. <i>Todea</i>

lower bdy. bushland reserve [Castlehaven Reserve & Extension]			Er [?]	30-40+	up to 4-6m	up to 3m	good					<i>barbara</i> , <i>Gleichenia dicarpa</i> , <i>Blechnum patersonii</i> , <i>B. ambiguum</i> , <i>Histiopteris</i> , <i>Calochlaena</i> (dom.), <i>Asplenium</i> (on rocks), <i>Eustrephus</i> , <i>Smilax</i> spp.]; significant remnant native Ceg group incl. old growth multi-stemmed spec. dom. weeds [<i>Ligustrum</i> , <i>Hedychium</i> , <i>Senna</i> , <i>Lantana</i> , <i>Solanum</i> , <i>Setaria</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Ochna</i> spp.]; Adjoins Area C(v) [see listing: <i>The Scarp - Public Reserves</i>].
40 Linden Way: rear garden [adj. to right-of-way to No. 38 Linden Way]	single tree	10ag(i)	Ac [1]	60-80+	12m	12m	good	5	low	restricted	T&BPO	exotic garden; Ac [1]- open crown/ some dead wood & pruning; possibly old growth spec.; also Ac X1/ sapling-cultivated origin ; no access.
42 Linden Way: front garden/ upper embankment adj. to house	single tree	10ar(i)	Ac [1]	60-80+	10m	10m	see notes	5	low	restricted	T&BPO	exotic garden; Ac [1]- leaning trunk w. sparse open crown/ some dead wood & vigorous new growth; dom. weeds [incl. <i>Cotoneaster</i> , <i>Nephrolepis</i> spp.].
46 Linden Way: very steep slope below upper scarp/ overhang [bdy. to No. 48 Linden Way]	s/s scarp s/s outcrops remnant community tree group	10ag(i)/ 10ag(iii)	Pu [dom.] Cal	up to 30-40+ <5	up to 7-8m <1m	up to 6-7m <0.5m	regrowth regen.	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	large block/ no building works [except steps]; recent clearing/ possible future development; significant s/s scarp & rock outcrops; no native canopy/ dead standing trees/ stags; highly disturbed/ modified; significant remnant group of native ferns assoc. w. scarp/ overhang [<i>Todea barbara</i> , <i>Blechnum patersonii</i> , <i>B. ambiguum</i> , <i>Histiopteris</i> , <i>Gleichenia</i> , <i>Calochlaena</i> , <i>Smilax</i> spp.]; Pu [dom.] <i>Cyathea cooperi</i> - cultivated origin.
mid-slope to lower slope [very steep]			Ceg [1] Ceg [1] Ceg [1]	40-50+ 80-100+ 40-50+	0.5m 7m 6m	0.5m 3m 2m	lopped good/ leaning good	varies: 3-5	medium-low	very steep slope; remnant Ceg group/ Ceg [1]- lopped/ regrowth adj. to steps; Ceg [1]- leaning/ old growth spec.; <i>Notelaea longifolia</i> - incl. old specimen/		
lower steep slope/ scarp & bdy. to bushland reserve [Castlehaven Reserve & Extension]			Er [1]	40-50+	1.5m	0.5m	lopped/ regrowth			cut stump/ coppicing regrowth; native groundcovers/ climbers [<i>Calochlaena</i> (dom.), <i>Cissus hypoglauca</i> , <i>Blechnum cartilagineum</i> , <i>Clematis glycinoides</i> , <i>Hypolepis</i> , <i>Pandorea</i> , <i>Eustrephus</i> , <i>Smilax</i> spp.]; dom. weeds [<i>Lantana</i> , <i>Hedychium</i> , <i>Senna</i> , <i>Solanum</i> , <i>Setaria</i> , <i>Ligustrum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> ,		

												<i>Ochna</i> spp.]; Pu regrowth; gen. native planting [<i>Casuarina glauca</i> X2]/ lower bdy. to reserve. Adjoins Area C(v) [see listing <i>The Scarp - Public Reserves</i>].	
48 Linden Way: rear garden/ top of scarp adj. to right-of-way/ steps [No. 46 Linden Way]	s/s scarp s/s outcrops tree group	10ag(i)	Ceg [1] Ceg [1] Er [1] Gf [1]	40-50+ 20-30+ 15-20+ 15-20+	4m 1.5m 1m 3m	3m 1m 1m 2m	good good/ lopped good/ lopped good	5	low	isolated	T&BPO	significant s/s scarp & rock outcrops; exotic garden/ recent clearing & herbicidal damage; no native canopy trees/ remnant understorey assoc. w. scarp/ rock outcrops; Pu regrowth; dom. weeds [<i>Hedychium</i> , <i>Lantana</i> , <i>Senna</i> , <i>Asparagus</i> , <i>Lonicera</i> , <i>Setaria</i> , <i>Nephrolepis</i> spp.].	
50 Linden Way: upper driveway adj. to house/ upper scarp	s/s scarps s/s outcrops remnant community	10ar(i)/ 10ag(i)	Fru	<5	<0.5m	<0.5m	regen.	5	low	isolated	adj.SEPP 19 /T&BPO SREP 23	exotic garden; significant s/s scarp & rock outcrops [upper level/ driveway]; native ferns [<i>Gleichenia</i> , <i>Histiopteris</i> spp.]; dom. weeds [incl. <i>Ligustrum</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.].	
upper eastern courtyard on bdy. to No.48 Linden Way			Bs [1]	?100-150+	9m	12m	fair					Bs [1]- outstanding old growth spec./ multi-stemmed [3]/ 1200mm diam. base/ some dead wood & smothered in <i>Hedera</i> sp./ advised removal.	
rear garden/ mid-scarp [below house] & steep slope to lower bdy. [No.46 Linden Way]		10ag(iii)	Pu [dom.] Er [1] Er [1] Clto [1]	up to 30-40+ 40-50+ 30-40+ ?30-40+	up to 7-9m 4m 3m 3.5m	varies 0.5m 2m 3m	regrowth poor/ regrowth good/ regrowth good	varies: 4-5		fragmented		significant s/s scarp, overhang & rock outcrops [contiguous w. No.46 Linden Way- see listing above]; native ferns [incl. <i>Todea barbara</i> (vigorous regen.) <i>Blechnum</i> , <i>Histiopteris</i> , <i>Calochlaena</i> spp.]; Er [1]/ poor- on bdy. To No.46/ snapped stem/ regrowth; Er [1]/ good- multi-stemmed coppicing at base; Clto [1]- <i>Clerodendron tomentosum</i> - locally uncommon [adj. to bdy No.46]; subject to bdy. survey; lower narrow strip to reserve/ dom. weeds; adjoins Area C(iv) [see listing: <i>The Scarp</i>].	
lower narrow strip/ steep slope adjoining Castlehaven Reserve & Extension													
52 Linden Way: front garden/ upper level adj. to front bdy.	tree group s/s outcrops	10ar(i)/ 10ag(i)	Ac [1] Ac [2]	?100-150+ 60-80+	10m 8-9m	15m 6-7m	good good	5	low	restricted	T&BPO	exotic garden/ upper slope; significant remnant native Ac/ Ceg group assoc. w. rock outcrops/ mixed age structure contiguous w. No. 54 Linden Way/ tree group [see listing below]; Ac [1]- v. old growth spec./ some dead wood; Ac [2]- some pruning for o'head power-lines; Ceg [3]- multi-stemmed specimens/	
upper north-west bdy./ rock outcrops adj. to bdy. No.54 Linden Way			Ac [1] Ac [1] Ceg [3]	50-60+ 50-60+ ?60-80+	9m 8m 2-3m	7m 4m 3-4m	good good good [2]/ fair [1]	varies: 4-5					

												possibly old growth/ regrowth group; subject to bdy. survey; no access.
rear garden/ scarp [lower bdy. to No. 50 Linden Way]	s/s scarp s/s outcrops									isolated		significant s/s scarp & rock outcrops along lower bdy.; native ferns; dom. weeds; subject to bdy. survey [see listing for No. 50 Linden Way].
54 Linden Way: front garden/ south-east bdy./ rock outcrops adj. to bdy. No.52 Linden Way [south of entry pathway]	tree group s/s outcrops	10ar(i)/	Epip [1] Ac [1] Bs [1] As [1] Ac [1] Ac [1]	80-100+ 60-80+ 60-80+ 50-60+ 60-80+ 30-40+	8m 8m 4m 4m 8m 9m	7m 7m 6m 5m 10m 3m	poor good good fair good good	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	large block; significant remnant native tree group assoc. w. rock outcrops/ contiguous w. No. 52 Linden Way/ tree group [see listing]; Epip [1]/ poor- old growth spec./ext. crown die-back/ dead wood/ large basal cavity; Ac [dom.]/ some dead wood; As [1]/ fair- likely planted; generic native planting.
lower south-east garden adj. to bdy. No. 52 Linden Way			Cgu [1]	60-80+	9m	7m	fair					Cgu [1]- sparse canopy/ dead wood; <i>Banksia serrata</i> - all cultivated [here].
front garden/ between entry path and driveway			Ac [1]	?100-150+	9m	18m	good					Ac [1]- old growth spec.; <i>Doryanthes/ Xanthorrhoea</i> spp./ all cultivated.
front garden/ east of tennis court [tennis court group]			Era [3]	?100-150+	10-12m	8-12m	good					Era [3]- significant old growth group/ multi-trunked specs. mixed w. generic native planting/ <i>Corymbia maculata</i> [tennis court group & nth bdy.]; also planted <i>Acacia binervia</i> + Bs [verge].
adj. to bdy. No.56			Ac [1] Al [1]	40-50+ 15-20+	6m 4m	6m 3m	good good					
rear garden/ upper scarp adj. to bdy. No. 52 Linden Way	s/s scarp s/s outcrops remnant community		Fru [1] Er [1]	20-30+ 20-30+	5m 1.5m	7m 1m	good lopped	varies: 4-5 [mainly 5]		isolated		significant s/s scarp & rock outcrops; Er [1]/ lopped- multi-stem regrowth; remnant native ferns [incl. <i>Gleichenia</i> , <i>Histiopteris</i> spp.]; Pu regrowth; <i>Cyathea</i> sp./ cultivated origin; dom. weeds [incl. <i>Hedychium</i> , <i>Nephrolepis</i> , <i>Lonicera</i> spp.]; no access.
lower narrow strip/ steep slope adjoining Castlehaven Reserve & Extension		10ag(i)						5		restricted		subject to bdy. survey; lower narrow strip to reserve; Pu regrowth; <i>Cyathea</i> sp./ cultivated origin; dom. weeds [as in No.46 & 50]/ cleared; adjoins Area C(iv) [see listing: The Scarp].
												Survey Date: 12 Dec-16 Dec 2011
56 Linden Way: rear garden/ lower scarp & rock outcrops adj. to rear bdy. No.5 Knight Pl.	s/s scarp s/s outcrops remnant community	10ag(i)	Eha/ Bs Be/ Ka Ka/ Fru	<5 <5 5-10+	up to 2-4m up to 2-3m up to 2m	varies varies 2m	good good good/ regen.	varies:4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s scarp & rock formations; cleared/ modified; native planting (unknown provenance) [Eha/ Bs/ Be/ Ka (seedlings) -all likely planted]; remnant natives/ regen. [incl. <i>Kunzea</i> , <i>Ficus</i> spp.]; no access.

58 Linden Way: rear garden/ upper terrace adj. to house	tree group	10ag(i)	Ac [1]	80-100+	16m	16m	good	5	low	restricted	T&BPO	exotic terraced garden; Ac [1]- old growth multi-trunk spec.; no access.	
mid-terrace level			Fru [1]	60-80+	12m	8m	good					generic. native planting.	
lower scarp & rock outcrops adj. to rear bdy. No.4 Knight Pl.			Esi [1]	40-50+	9m	9m	fair					varies: 4-5 [mainly 5]	significant s/s scarp & rock formations; Esi [1]- ext. dead wood.
			Esi [1] Ceg/ Al	10-15+ up to 15-20+	6m up to 5-6m	2m up to 3-5m	good good						
66 Linden Way: front garden/ adj. to front bdy.	single tree	10ar(i)	Ac [1]	80-100+	9m	14m	good	5	low	restricted	T&BPO	exotic garden; Ac [1]-old growth multi-trunk specimen/ pruning history for o'head power-lines.	
68 Linden Way: rear garden/ lawn area adj. to rear deck	two trees	10ar(i)	Era [1] Ac [1]	80-100+ 50-60+	12m 12m	10m 6m	see notes good	5	low	isolated	T&BPO	exotic garden; Era [1]-old growth multi-trunk specimen/ some cavities; Ac [1]- some damage to main stem/ vigorous new growth.	
70 Linden Way: front garden/ adj. to front bdy.	single tree	10ar(i)	Ceg [1]	40-50+	4m	4m	good	5	low	restricted	T&BPO	exotic terraced garden; Ceg [1]- possibly cultivated.	
72 Linden Way: front garden/ [eastern garden]/ paved area adj. to house	single tree	10ar(i)	Epip [1]	80-100+	5m	9m	good	5	low	restricted	T&BPO	exotic garden; Epip [1]- old growth specimen/ 600mm DBH/ some past pruning/ vigorous new growth.	
Linden Way - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 8 Apr-12 Apr 2013	
For drainage reserve/ foreshore scarp between No. 2 Linden Way and rear boundaries of Nos. 2-4 Cheyne Walk see Cheyne Walk - Public Reserves [Area B(iii)].													
public verge: adj. to No.16 Linden Way	two trees s/s outcrops	10ag(i)	Ac [1] Ac [1]	40-50+ <5	9m 2m	6m 1m	good good	5	low	isolated	T&BPO	exotic/ native garden on verge; Ac [1]- lopped/ damaged base; Ac [1]/ sapling on rock outcrop/ regen. or planted; Eha X1 on verge/ likely cultivated.	
For road cutting/ rock outcrops at intersection with The High Tor [between Nos. 23-25 Linden Way] see The High Tor - Road Reserves, Drainage Easements & Public Pedestrian Linkages.													
public verge: adj. to No.28 Linden Way/ driveway	single tree	10ag(i)	Ac [1]	80-100+	12m	12m	good	5	low	isolated	T&BPO	exotic garden; Ac [1]- old growth multi-trunk [3] spec. w. conc. collar around base/ pruning for o'head power-lines.	
Linden Way - Public Reserves:												Survey Date: 12 Dec-16 Dec 2011	
Linden Way Reserve (Castlecrag Group) Linden Way Reserve is partially scheduled as SEPP 19: Bushland in Urban Areas (Public Open Space) in the Willoughby City Bushland Plan of Management (2000). This reserve conserves an isolated central core of remnant/ modified bushland surrounded by cleared areas (mown grass), private access road, playground and restored bushland. The reserve is isolated by residential development. Linden Way Reserve listings are divided into Areas A-C [refer to aerial photos] as follows:													
Area A: core bushland- central area [between internal access road & playground]	s/s outcrops tree group core bushland community	10ar(i)	Era [dom.] Cgu Ka/ Al [dom.] Al/ Ka/ Era Er/ Had Psa	up to 80-100+ up to 80-100+ up to 30-40+ up to 5-10+ up to 10-15+ up to 40-50+	up to 7-8m up to 8-9m up to 4m up to 3-4m up to 3-4m up to 3m	up to 15m up to 8-9m varies varies varies up to 4m	varies good good good/ regen. good/ regen. good	varies: 2-5	high-low	fragmented	SEPP 19/ T&BPO	significant remnant native tree group/ disturbed and modified community assoc.w. rock shelf/ outcrops; Era [dom.]/ Cgu group incl. multi-trunk old growth specimens/ varying condition; varying level of disturbance/ weeds; good natural regen.; remnant natives	

													[incl. <i>Allocasuarina littoralis</i> , <i>Kunzea ambigua</i> , <i>Polyscias sambucifolia</i> (incl. old specs.), <i>Caustis flexuosa</i> , <i>Acacia parramattensis</i> , <i>Grevillea linearifolia</i> , <i>Wahlenbergia</i> , <i>Oplismenus</i> , <i>Hibbertia</i> , <i>Entolasia</i> , <i>Commelina</i> , <i>Dichelachne</i> , <i>Austrodanthonia</i> , <i>Pteridium</i> spp.]; Pu regrowth; current regen./ restoration strategy; generic [<i>Corymbia citriodora</i>] & local native planting (unknown provenance) [incl. <i>Ac/ Eha/ Bint/ Be/ Ka/ Callitris</i> , <i>Callistemon</i> , <i>Dodonaea</i> , <i>Xanthorrhoea</i> , <i>Acacia</i> spp.].
Area B: remnant/ restored bushland - northern boundary between access road & bdy. No.35 Linden Way & western boundary adj. to public grass verge	tree group remnant community s/s outcrops		Ka/ Al [dom.] Ac Bint/ Be Ka/ Eha Crho	up to 15-20+ up to 15-20+ up to 15-20+ up to 15-20+	up to 3-4m up to 4-6m up to 4-7m up to 4-7m up to 4-5m	varies varies varies varies up to 1-2m	good good good good good	varies 3-5	medium-low				significant remnant native tree group/ old growth [Epip/ Era/ Cgu] in lawn area; Ac [group]- possibly planted; rock outcrops & rock shelf; regen. strategy; weeds [incl. <i>Ehrharta</i> , <i>Coreopsis</i> , <i>Bryophyllum</i> spp.].
Area C: remnant bushland- within cleared/ mown area adj. to playground [south-west corner]	tree group remnant community s/s outcrops		Epip [1] Era [2] Cgu [4] Ac	80-100+ 80-100+ up to 80-100+ up to 20-30+	7m 7-8m 9-12m up to 6-7m	9m 8-10m 8-10m up to 6-7m	good good good good						
Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-18] (Lehany & Walker for WCC, 1997) .													
Morotai Crescent - Residential Properties:												Survey Date: 14 Dec-18 Dec 2009	
6 Morotai Cres: rear garden/ lower slope adj. to reserve	single tree s/s outcrops	10ag(i)	Ceg [1]	40-50+	4m	3m	good	5	low	fragmented	adj.SEPP 19 /T&BPO	exotic garden; significant s/s outcrops; Pu regrowth; dom. weeds [<i>Ligustrum</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.].	
7 Morotai Cres: front garden/ rock shelf/ outcrops along front bdy. to road-side verge	s/s outcrops s/s cutting	10ar(i)						5	low	isolated	T&BPO	exotic terraced garden; significant s/s outcrops contiguous w. Nos.9-11 [see listings]; no remnant natives evident.	
9 Morotai Cres: front garden/ rock shelf/ outcrops along front bdy. to road-side verge	s/s outcrops s/s cutting remnant community	10ar(i)/	Lep [1] Lep [dom.]	?50-60+ up to 5-10+	3m up to 1.5m	3m up to 1.5m	poor good/ regen.	varies: 3-5 [mainly 5]	medium-low	isolated	T&BPO	exotic garden; Lep [1]/ <i>Leptospermum polygalifolium</i> - old growth spec./ ext. die-back; good regen./ biodiversity; remnant natives assoc.w. significant s/s outcrops [incl. <i>Grevillea linearifolia</i> , <i>Omalanthus</i> , <i>Histiopteris</i> , <i>Deyeuxia</i> , <i>Wahlenbergia</i> , <i>Pteris</i> spp.]; outcrops contiguous w. Nos.7&11 [see listings]; Pu regrowth; dom. weeds [<i>Ligustrum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Bromus</i> spp.] would respond to regen. strategy.	
rear garden/ adj. to rear bdy. & bdy. to No.11 Morotai Cr.	single tree	10ag(i)	Ac [1]	80-100+	8m	10m	good	5	low			Ac [1]- old growth spec./ some dead wood in crown; no access onto site.	
10 Morotai Cres: rear garden/ lower slope adj. to rear bdy. to reserve	single tree s/s outcrops	10ag(i)	Ac [1]	80-100+	18m	22m	good	5	low	fragmented	adj.SEPP 19 /T&BPO	exotic garden; significant s/s outcrops; Ac [1]- old growth spec./900mm diam. base/ listing subject to bdy. survey;	

												Pu regrowth; dom. weeds; mulched.
11 Morotai Cres: front garden/ rock shelf/ outcrops along front bdy. to road-side verge	s/s outcrops s/s cutting	10ar(i)						5	low	isolated	T&BPO	significant s/s shelf contiguous w. Nos. 7-9 Morotai Crescent [see listings]; no remnant natives evident.
20 Morotai Cres: rear garden/ lower level below scarp	single tree s/s scarp s/s outcrops	10ag(i)	Epip [1]	?100-150+	16m	18m	fair	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO	exotic garden; significant s/s scarp & rock outcrops; Epip [1]- v.old growth spec./ ext. dead wood & upper crown die-back/ trunk lopped at base/ good regrowth/ remove <i>Monstera</i> sp.; native ferns on scarp [incl. <i>Histiopteris</i> sp.]; <i>Cyathea</i> sp./ likely cultivated origin; Ac X5 (<5 yrs)- planted along bdy.
22 Morotai Cres: rear garden/ sandstone scarp	s/s scarp s/s outcrops remnant community	10ag(i)						varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO	exotic garden; significant s/s scarp & rock shelf/ outcrops; remnant native ferns [<i>Todea</i> sp.]; <i>Cyathea</i> sp./ likely cultivated origin.
Morotai Crescent - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 14 Dec-18 Dec 2009
easement: public pedestrian pathway/ steps between Nos.26 & 28 Morotai Cres. [access to walking track/ Warners Park]	s/s scarp s/s outcrops	10ar(i)/ 10ag(i)						5	low	isolated	adj.SEPP 19 /T&BPO	significant s/s scarp & rock outcrops; highly modified; generic & local native planting [<i>Euc. botryoides</i> , <i>Kunzea</i> , <i>Acacia</i> , <i>Lomandra</i> , <i>Dianella</i> spp.]; native ferns [<i>Pteris tremula</i>] / likely cultivated origin.
Raeburn Avenue - Residential Properties:												Survey Date: 6 Jan-10 Jan 2014
46 Raeburn Ave: rear garden/ adj. to rear bdy. to No.143 Eastern Valley Way	single tree	10ag(i)	Ac [1]	60-80+	18m	16m	good	5	low	isolated	T&BPO	exotic garden; Ac [1]- possibly old growth spec./ some dead wood; also generic native planting.
Rockley Street - Residential Properties:												Survey Date: 6 Sep-10 Sep 2010
1 Rockley Street: front garden/ upper level adj. to verge [Rockley Street frontage]	tree group s/s outcrops	10ar(i)	Era [1] Ac [1] Ac Er [1] Ac [2]	60-80+ 20-30+ <5 10-15+ 40-50+	9m 8m <0.5m 0.5m 8-9m	12m 6m <0.5m 0.5m 7m	see notes good good/ regen. lopped/ regrowth good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; significant remnant native canopy group/ part of larger contiguous group [see Nos.3 Rockley St/ 2 The Barbican & verges]; Era [1]- basal cavity/ some dead wood; Ac [2]- some pruning/ dead wood; remnant natives [incl. <i>Stephania</i> sp.]; generic native planting [<i>Allocastrum torulosa</i> , <i>Doodia</i> , <i>Adiantum</i> spp.]; exotic weeds [incl. <i>Cinnamomum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> spp.]; Ac [1]- old growth specimen/ lower terraced garden/ ext. dead wood & decline; dom. weeds
rear garden/ lower level [The Barbican frontage]			Ac [1]	80-100+	10m	16m	fair	5				

												[incl. <i>Arundo</i> , <i>Phyllostachys</i> spp.]; all listings subject to boundary survey.
												Survey Date: 2 Aug-6 Aug 2010
2 Rockley Street: rear garden/ upper level [pool terrace]	tree group s/s scarp	10ag(i)	Fru [1]	80-100+	9m	18m	good	5	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic garden; Fru [1]- old growth specimen adj. to west bdy.
steep upper slope/ top of scarp [below pool terrace]	s/s outcrops remnant community		Fru [1] Ac [1] Pu (dom.)	60-80+ 50-60+ up to 30-40+	5m 12m up to 6-8m	10m 8m varies	good good good/ regrowth	varies: 3-5	medium-low			significant rock outcrops/ scarp; high level of disturbance/ fragmentation; dom.weeds [incl. <i>Ligustrum</i> , <i>Lantana</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Ipomoea</i> , <i>Tradescantia</i> , <i>Lonicera</i> spp.]; remnant native understorey [<i>Calochlaena</i> sp.];
steep mid- to lower slope adj. to foreshore walking track			Ac (dom.) Cgu Ceg/ Er Pu (dom.)	up to 80-100+ up to 80-100+ up to 20-30+ up to 30-40+	up to 18-25m up to 18m up to 6-8m up to 6-8m	varies varies varies varies	good varies good good/ regrowth	varies: 1-3	high-medium			significant rock outcrops/ scarp; varying level of disturbance/ dom. weeds [as above]; natives [incl. <i>Calochlaena</i> , (dom.), <i>Lomatia silaifolia</i> , <i>Notelaea</i> , <i>Smilax</i> spp.]; Pu regrowth; subject to boundary survey; no access.
steep lower slope/ rock outcrops to inter-tidal zone [incl. foreshore walking track]	core bushland community		Ac/ Epip Al (dom.) Ceg (dom.) Er (dom.) Cya	up to 80-100+ up to 40-50+ up to 60-80+ up to 15-20+ up to 20-30+	up to 12-18m up to 6-8m up to 6-8m up to 5-7m up to 3-4m	varies up to 5-7m up to 3-4m up to 3-4m up to 2-3m	varies good good good good	varies: 1-2	high	contiguous		largely intact native canopy [Ac/ Cgu/ Epip] incl. old growth specimens; high biodiversity/ significant contiguous bushland [incl. Nos.4, 6, 8A, 10 & 14 Rockley St.] adj. Sailors Bay Park & Watergate Reserve; diverse native understorey [incl. <i>Cyathea australis</i> , <i>Allocasuarina littoralis</i> , <i>Ceratopetalum gummiferum</i> , <i>Elaeocarpus reticulatus</i> , <i>Logania albiflora</i> , <i>Grevillea linearifolia</i> , <i>Pomaderris intermedia</i> , <i>Crowea saligna</i> , <i>Bauera rubioides</i> , <i>Acacia terminalis</i> , <i>Podocarpus spinulosus</i> , <i>Gompholobium latifolium</i> , <i>Gahnia erythrocarpa</i> , <i>Epacris longiflora</i> , <i>Leptospermum trinervium</i> , <i>Xanthosia pilosa</i> , <i>Leucopogon amplexicaulis</i> , <i>Lomandra longifolia</i> / <i>L. filiformis</i> , <i>Dracophyllum secundum</i> , <i>Dianella caerulea</i> , <i>Cissus hypoglauca</i> , <i>Smilax</i> , <i>Parsonsia straminea</i> , <i>Eustrephus</i> , <i>Pteridium</i> , <i>Calochlaena</i> , <i>Gleichenia</i> <i>Gonocarpus</i> , <i>Entolasia</i> spp.]; min. weeds on lower slope.
												Survey Date: 6 Sep-10 Sep 2010

3 Rockley Street: front garden/ upper level adj. to entry & verge [Rockley Street frontage]	tree group	10ar(i)/	Ac [2] Ac [1] Ac [1] Gf [1] Ac [1]	40-50+ 60-80+ 30-40+ 20-30+ 50-60+	8-9m 12m 7m 7m 9m	8-9m 10m 4m 6m 6m	good good good fair good/ lopped	5	low	fragmented	T&BPO	exotic garden; significant remnant native canopy group/ part of larger contiguous group [see Nos.1 Rockley St/ 2 The Barbican & verges]; Ac X5- some dead wood; Pu regrowth; gen. native planting [incl. <i>Xanthorrhoea</i> , <i>Melaleuca</i> , <i>Poa</i> spp.]; weeds [incl. <i>Asparagus</i> , <i>Nephrolepis</i> spp.].
rear garden/ lower level wall adj. to public verge [The Barbican frontage]		10ag(i)										<i>Cissus hypoglauc</i> - possibly cultivated origin; Pu regrowth.
4 Rockley Street: front garden/ upper level	tree group s/s outcrops	10ar(i)/	Era [1] Ceg [1]	60-80+ 5-10+	9m 3m	10m 1m	poor good	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic garden/ designated construction site; Era [1]- adj. to bdy. No.2/ dead wood/ ext. epicormic growth; Ceg [1]- adj. to bdy. No.6/ likely natural regen.; also <i>Clerodendrum</i> , <i>Dianella</i> spp.]; Pu regrowth; dom.weeds [<i>Asparagus</i> , <i>Ochna</i> spp.].
rear garden/ terraced upper levels		10ag(i)						5				dom. weed thicket [<i>Lantana</i> , <i>Senna</i> , <i>Ligustrum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Lonicera</i> , <i>Ipomoea</i> , <i>Tradescantia</i> , <i>Watsonia</i> spp.]; no remnant native spp.
steep upper slope/ top of scarp	s/s scarp tree group		Ac [1] Ac [1] Gf [1] Pu (dom.)	50-60+ 20-30+ 50-60+ up to 30-40+	9m 7m 8m up to 6-8m	6m 4m 7m varies	see notes good fair good/ regrowth	varies: 4-5				dom. weeds [as above]; Ac [1]- ext. dead wood/ vigorous new growth; Gf [1]- ext. die-back (30%); dead stag X1 Epip?
steep mid- to lower slope adj. to foreshore walking track	remnant community		Ac (dom.) Sygl [1] Pu (dom.)	up to 80-100+ 15-20+ up to 30-40+	up to 18-25m 4m up to 6-8m	up to 25m 3m varies	good good good/ regrowth					significant rock outcrops/ scarp; highly disturbed/ modified; largely cleared; no access to lower scarp; Ac (dom.)- significant group incl. old growth specs; remnant native understorey [<i>Synoum</i> <i>glandulosum</i> , <i>Calochlaena</i> , <i>Dodonaea</i> <i>Dianella</i> spp.]; subject to bdy. survey.
steep lower slope/ rock outcrops to inter-tidal zone [incl. foreshore walking track]	core bushland community		Ac [5+] Epip [2] Ceg (dom.) Al/ Er Cya Pu (dom.)	up to 80-100+ up to 30-40+ up to 60-80+ up to 20-30+ up to 20-30+ up to 30-40+	up to 18-25m up to 8-9m up to 6-8m up to 5-7m up to 3-4m up to 6-8m	up to 25m up to 8-10m up to 3-4m varies up to 2-3m varies	good good good good good good/ regrowth	varies: 1-2 [mainly 1]	high	contiguous		significant rock outcrops; largely intact native canopy incl. old growth specs./ up to 1000mm DBH; high biodiversity/ significant contiguous bushland [incl. Nos.2, 6, 8A, 10 & 14 Rockley St.] adj. Sailors Bay Pk & Watergate Reserve; native understorey [<i>Cyathea australis</i> , <i>Allocasuarina littoralis</i> , <i>Ceratopetalum</i> <i>gummiferum</i> , <i>Elaeocarpus reticulatus</i> ,

												<i>Logania albiflora</i> , <i>Leionema dentatum</i> , <i>Grevillea linearifolia</i> , <i>Acacia terminalis</i> , <i>Podocarpus spinulosus</i> , <i>Pultenaea flexilis</i> , <i>Gompholobium latifolium</i> , <i>Leucopogon amplexicaulis</i> , <i>Epacris longiflora</i> , <i>Gahnia erythrocarpa</i> , <i>Notelaea longifolia</i> , <i>Xanthosia pilosa</i> , <i>X. tridentata</i> , <i>Marsdenia suaveolens</i> , <i>Eustrephus latifolius</i> , <i>Dracophyllum</i> , <i>Dianella caerulea</i> var. <i>producta</i> , <i>Calochlaena</i> , <i>Acianthus</i> , <i>Entolasia</i> , <i>Smilax</i> spp.]; min. weeds on lower slope; listings subject to bdy. survey.
6 Rockley Street: front garden/ upper level	tree group s/s outcrops	10ar(i)/	Ac [3] Ceg [1]	80-100+ 40-50+	9-12m 4m	15-18m 2m	good good	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic garden; Ac [3]- old growth specs./ significant group on rock shelf.
rear garden/ upper slope to mid-slope		10ag(i)	Ac [1] Bs [1]	15-20+ 15-20+	6m 7m	3m 6m	good good					highly disturbed/ modified; no access; Ac/Bs- likely planted; gen./local native planting (unknown provenance) [incl. <i>Corymbia</i> spp., <i>Dodonaea</i> , <i>Pultenaea</i> , <i>Pomaderris</i> , <i>Elaeocarpus</i> , <i>Dianella</i> spp.]; <i>Cyathea cooperi</i> -cultivated; <i>C. australis</i> / <i>Homalanthus</i> sp.- likely remnant natives.
steep mid- to lower slope [above foreshore walking track]	tree group s/s outcrops		Ac [1] Ac [2] Pu (dom.)	40-50+ 80-100+ up to 30-40+	12m 22-25m up to 6-7m	8m 18-25m varies	good good good/ regrowth					significant rock outcrops; dom. weeds/ cleared [<i>Ligustrum</i> , <i>Lantana</i> , <i>Senna</i> , <i>Solanum</i> , <i>Tradescantia</i> spp.]; fragmented native canopy incl. 2 X old growth specs./ up to 900mm DBH; remnant native understorey [incl. <i>Calochlaena</i> sp.]; Pu(dom.) regrowth.
steep lower slope/ rock outcrops to inter-tidal zone [incl. foreshore walking track]	core bushland community		Ac (dom.) Epip Ceg/ Bs/ Er Cya (dom.)	up to 80-100+ up to 80-100+ up to 20-40+ up to 20-30+	up to 18-25m up to 12-15m up to 5-7m up to 3-4m	up to 25m up to 15m varies up to 2-3m	good varies good good	varies: 1-2 [mainly 1]	high	contiguous		significant rock outcrops; largely intact native canopy/ understorey; minimal weeds; high biodiversity/ significant contiguous bushland [incl. Nos.2, 4, 8A, 10 & 14 Rockley St.] adj. Sailors Bay Pk. & Watergate Reserve; native understorey [<i>Cyathea australis</i> (dom.), <i>Banksia serrata</i> , <i>Ceratopetalum gummiferum</i> , <i>Elaeocarpus reticulatus</i> , <i>Gompholobium latifolium</i> , <i>Pultenaea flexilis</i> , <i>Acacia ulicifolia</i> , <i>A. terminalis</i> , <i>Pomaderris intermedia</i> , <i>Podocarpus</i>

												<i>spinulosus, Leptospermum trinervium, Grevillea linearifolia, Xanthosia pilosa, Gahnia erythrocarpa, Xanthorrhoea, Calochlaena, Pteridium, Gleichenia, Smilax</i> spp.]; subject to bdy. survey.
8A Rockley Street: rear garden/ upper slope [below deck]	tree group s/s outcrops remnant community	10ag(i)	Cgu [1] Ac [3] Ceg [5+] Pu (dom.)	60-80+ 40-60+ up to 60-80+ up to 30-40+	14m 14-15m up to 8-9m up to 6-7m	12m 6-10m up to 5-6m varies	good good good good/ regrowth	varies: 2-5	high-low	contiguous	adj.SEPP 19 /T&BPO SREP 23	steep slope/ exotic garden; no access; significant rock outcrops; Cgu [1]- adj. to bdy. No.6; Ac [3]- group adj. to bdy. No.10; <i>Ceratopetalum gummiferum</i> - group incl. possibly old growth specs.; native understorey [incl. <i>Calochlaena</i> , <i>Smilax</i> , <i>Stephania</i> spp.]; exotics/ weeds [incl. <i>Asparagus</i> , <i>Ipomoea</i> , <i>Lonicera</i> , <i>Tradescantia</i> spp.].
steep mid- to lower slope to reserve boundary [above foreshore walking track]	core bushland community		Ac (dom.) Ceg/ Cal Er Cya (dom.) Pu (dom.)	up to 60-80+ up to 20-40+ up to 10-15+ up to 20-30+ up to 20-30+	up to 15-16m up to 6-7m up to 4-5m up to 3-4m up to 6-7m	up to 15m varies 1-3m up to 2-3m varies	varies good good good good/ regrowth	varies: 1-3	high-medium			significant rock outcrops; min. weeds; old growth dead stag X1; Pu regrowth (dom.); native understorey [<i>Cyathea</i> <i>australis</i> , <i>Homalanthus</i> , <i>Calochlaena</i> <i>Stephania</i> , <i>Smilax</i> spp.]; all listings subject to bdy. survey; pair of Powerful Owls (<i>Ninox strenua</i>)- Conservation Status: Vulnerable/ roosting in Pu regrowth on west bdy. to No.10.
Note: For listing of bushland adjoining lower boundary refer to Rockley Street - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
10 Rockley Street: rear garden/ upper level/ top of upper scarp [upper gondola station]		10ar(i)/						5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic garden; As (row), Ac saplings & <i>Cyathea</i> sp.- all cultivated origin (confirmed by owner);
steep upper slope [below scarp]	s/s scarp s/s outcrops	10ag(i)	Ac [1] Ac [1]	60-80+ 40-50+	9m 9m	8m 6m	see notes good	varies: 3-4	medium-low	fragmented		significant s/s outcrops & scarp; Ac [1]- fallen tree/ epicormic regrowth; highly modified/ weed thicket progressively restored since 1990s (by owner)/ bush regen./ minimal disturbance strategy; now minimal weeds/ no generic native planting; natives [incl. <i>Allocasuarina</i> , <i>Elaeocarpus</i> , <i>Homalanthus</i> , <i>Grevillea</i> , <i>Hypolepis</i> , <i>Stephania</i> , <i>Dianella</i> spp.]; <i>Cyathea cooperi</i> - cultivated origin.
upper steep slope to lower gondola station [mid-slope]	tree group remnant community		Ac (dom.) Al/ Gf/ Er Pu (dom.)	up to 80-100+ up to 15-20+ up to 40-50+	up to 12-15m up to 4-6m up to 6-8m	up to 15m up to 2-4m varies	good good/ regrowth good/ regrowth	varies: 2-3	high-medium			
steep lower slope/ lower gondola station/ timber deck level to foreshore walking track & lower slope/ rock outcrops to inter-tidal zone	core bushland community		Ac [10+] Cgu [1] Egl [1] Epip Ceg/ Bs Had/ Er	up to 80-100+ 80-100+ 40-50+ up to 80-100+ up to 60-80+ up to 15-20+	up to 15-16m 12m 9m up to 9-10m up to 4-5m up to 3-5m	up to 15m 15m 8m up to 10-12m up to 5-6m varies	good good good good good good	1	high	contiguous		v. significant contiguous bushland [incl. Nos.2, 4, 6, 8A & 14 Rockley St.] adj. Sailors Bay Pk & Watergate Reserve; intact native canopy/ understorey; minimal weeds; high biodiversity [incl. <i>Banksia serrata</i> , <i>Ceratopetalum</i>

			Cya Mv	up to 20-30+ up to 20-30+	up to 3-4m up to 2m	up to 2-3m varies	good good					gummiferum, <i>Elaeocarpus reticulatus</i> , <i>Pomaderris intermedia</i> , <i>Leionema dentatum</i> , <i>Gompholobium latifolium</i> , <i>Myrsine variabilis</i> , <i>Pultenaea flexilis</i> , <i>P. daphnoides</i> , <i>P. stipularis</i> , <i>Dillwynia retorta</i> , <i>Woolisia pungens</i> , <i>Epacris longiflora</i> , <i>Podocarpus spinulosus</i> , <i>Leptospermum trinervium</i> , <i>Grevillea linearifolia</i> , <i>Acacia terminalis</i> , <i>Gahnia erythrocarpa</i> , <i>Caustis flexuosa</i> , <i>Platysace linearifolia</i> , <i>Xanthorrhoea</i> , <i>Dracophyllum</i> , <i>Pimelea</i> , <i>Xanthosia</i> , <i>Dianella</i> , <i>Hardenbergia</i> , <i>Billardiera Calochlaena</i> , <i>Pteridium</i> , <i>Gleichenia</i> , <i>Crowea</i> , <i>Smilax</i> , <i>Entolasia</i> spp.]; Epip- on lower scarp to water-line; listings subject to bdy. survey; pair of Powerful Owls (<i>Ninox strenua</i>)- Conservation Status: Vulnerable/ roosting in Pu regrowth/ <i>Cyathea australis</i> - east bdy. to No.8A.
14 Rockley Street: front garden		10ar(i)/						5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic garden; current building site; all gen.native planting [incl. <i>Eucalyptus botryoides</i> , <i>Casuarina glauca</i>].
rear garden/ upper-mid level cleared mown terrace	single tree	10ag(ii)	Gf [1]	80-100+	8m	12m	good					Gf [1]- old growth spec. on open lawn; dom. weeds.
steep upper to lower slope [incl. foreshore walking track & lower steep slope/ rock outcrops to inter-tidal zone]	s/s outcrops s/s scarp core bushland community		Ac (dom.) Cgu/ Epip Ceg/ Bs Had/ Al/ Er Pu (dom.)	up to 80-100+ up to 80-100+ up to 60-80+ up to 20-30+ up to 30-40+	up to 18-25m up to 18m up to 7-8m up to 7-8m up to 7-9m	varies varies varies varies varies	good varies good good good/ regrowth	varies: 1-5	high-low	contiguous		significant rock outcrops/ scarps; high biodiversity/ largely intact native canopy/ Ac (dom.) old growth specs.; significant contiguous bushland [incl. Nos.2, 4, 6, 8A &10 Rockley St.] adj. Watergate Reserve & Sailors Bay Pk.; native understorey [<i>Banksia serrata</i> , <i>Ceratopetalum gummiferum</i> , <i>Hakea</i> , <i>Allocasuarina</i> , <i>Elaeocarpus</i> , <i>Cissus hypoglauca</i> , <i>Calochlaena</i> (dom.), <i>Homalanthus</i> , <i>Xanthorrhoea</i> , <i>Smilax sp.</i>] Pu(dom.) regrowth; varying level of weed invasion [incl. <i>Ligustrum</i> , <i>Nephrolepis</i> spp.]; minimal weeds on lower slope; subject to bdy. survey.
Rockley Street - Road Reserves, Drainage Easements & Public Pedestrian Linkages:											Survey Date: 6 Sep-10 Sep 2010	

public grass verge: adj. to bdy. No.1 Rockley St. [Rockley Street frontage]	two trees	10ar(i)	Ac [1] Gf [1]	40-50+ 50-60+	8m 7m	8m 9m	good poor	5	low	fragmented	T&BPO	mown grass; part of larger contiguous native canopy group [see Nos.1 & 3 Rockley St./ 2 The Barbican]; Gf [1]-adj. to driveway/ regrowth [mesic shift] ext. crown die-back (50%)/dead wood.
public grass verge: adj. to bdy. No.3 Rockley St. [Rockley Street frontage]	single tree	10ar(i)	Ac [1]	80-100+	8m	10m	good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	mown grass; part of larger contiguous native canopy group [see Nos.1 & 3 Rockley St./ 2 The Barbican]; Ac [1]-old growth multi-trunk [2] specimen; remnant natives [<i>Dianella</i> sp.]; also generic native planting [<i>Corymbia citriodora</i>]; weeds [<i>Asparagus</i> sp.].
public grass verge: adj. to bdy. No.2 The Barbican [Rockley Street frontage]	two trees	10ar(i)	Ac [1] Bs [1]	80-100+ 10-15+	7m 4m	12m 3m	good good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	grass verge; part of larger contiguous native canopy group [see Nos.1 & 3 Rockley St./ 2 The Barbican]; Ac [1]-old growth/ sculptural specimen; Bs [1]- likely planted.
public grass/ mulched verge: adj. to bdy. No.1 The Barbican (Map Ref: 7 Rockley Street) [Rockley Street frontage]	tree group	10ar(i)	Eha [2] Gf [1] Ac [1]	10-15+ 30-40+ ?100-150+	7m 6m 8m	4-5m 8m 14m	see notes good good	5	low	fragmented	T&BPO	mown grass/mulched verge; Ac[1]- v. old multi-trunk [2] spec./ massive base 1300mm DBH/ dead wood/ vigorous new growth/ 1x trunk lopped; Eha [2]- some dead wood/ cavity X1- possibly planted; <i>Syncarpia glomulifera</i> [6m HT sapling]/ <i>Acacia</i> sp.- cultivated origin; weeds; grading to bushland reserve; Ac [1]- old growth specimen [18m HT] in reserve adj. to verge [not listed].
For adjoining bushland reserve [Sailors Bay Park] refer to Rockley Street - Public Reserves.												
bushland reserve: adj. to lower rear bdy. to 8A Rockley Street steep lower slope/ rock outcrops to inter-tidal zone [incl. foreshore walking track]	core bushland community		Ac (dom.) Epip Ceg/ Bs/ Er Cya (dom.)	up to 80-100+ up to 80-100+ up to 20-40+ up to 20-30+	up to 18-25m up to 12-15m up to 5-7m up to 3-4m	up to 25m up to 15m varies up to 2-3m	good varies good good	varies: 1-2 [mainly 1]	high	contiguous		significant rock outcrops; largely intact native canopy/ understorey; minimal weeds; high biodiversity/ significant contiguous bushland [incl. Nos.2, 4, 6, 10 & 14 Rockley St.] adj. Sailors Bay Park & Watergate Reserve; native understorey [see adjoining listings: Nos. 6 & 10 Rockley St]; public land following subdivision of No.8.
Note: This land was transferred to public bushland reserve following subdivision of No.8 Rockley Street.												
Rockley Street - Public Reserves:											Survey Date: 6 Sep-10 Sep 2010	
Sailors Bay Park (Warners Bay Group) Sailors Bay Park is a major bushland reserve scheduled as SEPP 19: Bushland in Urban Areas (Public Open Space) in the Willoughby City Bushland Plan of Management (2000). Sailors Bay Park listings are divided into Areas A(i-iv)-B(i-iii) [refer to aerial photos] as follows:												
Area A(i): remnant bushland-upper eastern end of Rockley St.	s/s outcrops tree group	10ar(i)/ 10ag(i)	Ac [dom.] Pu [dom.]	up to 80-100+ up to 30-40+	up to 12-15m up to 5-6m	up to 20m+ varies	good good/ regrowth	varies: 1-5	high-low	contiguous	SEPP 19 /T&BPO	varying level of disturbance/ weed invasion [<i>Pinus radiata</i> , <i>Asparagus</i> ,

cul-de-sac/ unmade carpark & adjoining bushland	remnant community		Bint	up to 15-20+	up to 4-6m	varies	good				SREP 23	<i>Nephrolepis</i> spp.] & fragmentation; largely intact native Ac(dom.) canopy; natives [incl. <i>Imperata</i> , <i>Pteridium</i> , <i>Dianella</i> , <i>Lomandra</i> spp.]; Bint- possibly cultivated origin; grading to core bushland community; south-east portion subject to pile burn [1998].
Area A(ii): remnant bushland- upper scarp/ north-west portion of reserve/ adj. to bdy. No.3 The Barbican/ right-of-way	s/s outcrops s/s scarp two trees remnant community	10ar(i)	Epip [1] Ac [1]	?100-150+ 80-100+	10m 9m	12m 10m	good good	varies: 3-5	medium-low	fragmented		highly modified/ disturbed community; significant s/s scarp & rock outcrops; Epip [1]- multi-trunk (5) & Ac [1]- both old growth specimens on top of scarp adj. to carport [No.3 The Barbican]; bdy. confirmed; natives [incl. <i>Dianella</i> , <i>Lomandra</i> , <i>Imperata</i> , <i>Pteridium</i> spp.]; Pu regrowth; local & generic native planting; varying level of exotics/ weed invasion [<i>Pinus</i> , <i>Asparagus</i> , <i>Ochna</i> , <i>Nephrolepis</i> spp.].
Area A(iii): core bushland- upper steep slope/ scarp & rock outcrops to mid-slope	s/s scarp s/s outcrops core bushland community	10ag(i)/ 10ag(iii)	Ac [dom.] Bs/ Ceg Sygl Al/ Er/ Bint Pu/ Gf/ Fru	up to 80-100+ up to 80-100+ up to 80-100+ up to 20-30+ up to 30-40+	up to 18-20m up to 4-8m up to 4-6m up to 5-8m up to 5-6m	up to 25m+ varies varies varies varies	good good good good good/ regrowth	varies: 1-5 [mainly 1-2]	high-low	contiguous		steep scarp/ eastern aspect; significant s/s scarp & rock outcrops/ formations largely intact community/ littoral vine forest influence/ mesic understorey [<i>Synoum glandulosum</i> (incl. old growth spec./ 4m HT), <i>Banksia integrifolia</i> , <i>Ficus rubiginosa</i> , <i>Cissus hypoglauca</i> , <i>Glochidion</i> , <i>Pittosporum</i> , <i>Eustrephus</i> , <i>Pandorea</i> , <i>Stephania</i> spp.]; varying level of weed invasion [<i>Asparagus</i> , <i>Ipomoea</i> , <i>Tradescantia</i> spp.]; recent controlled burn on mid-slope.
Area A(iv): core bushland- southern foreshore track [linking to lower bdy. No.2 Rockley Street]/ steep slope & lower scarp to inter-tidal zone	s/s scarp s/s outcrops core bushland community	10ag(i)/ 10ag(iii)	Ac/ Epip Pu (dom.) Ceg (dom.) Al/ Er Cya	up to 80-100+ up to 30-40+ up to 60-80+ up to 20-30+ up to 20-30+	up to 12-18m up to 7-9m up to 6-8m up to 5-7m up to 3-4m	varies varies varies varies up to 2-3m	varies regrowth good good good	varies: 1-2 [mainly 1]	high	contiguous		largely intact native canopy [Ac/ Epip] incl. old growth specimens; high biodiversity; diverse native understorey [incl. <i>Banksia serrata</i> , <i>Ceratopetalum gummiferum</i> , <i>Allocasuarina littoralis</i> , <i>Elaeocarpus reticulatus</i> , <i>Cyathea australis</i> , <i>Logania albiflora</i> , <i>Crowea saligna</i> , <i>Pomaderris intermedia</i> , <i>Bauera rubioides</i> , <i>Acacia terminalis</i> , <i>Podocarpus spinulosus</i> , <i>Gahnia erythrocarpa</i> , <i>Gompholobium latifolium</i> <i>Epacris longiflora</i> , <i>Xanthorrhoea</i> ,

Area B(i): remnant bushland-lower steep slope between roadway & Castlecrag Marina	s/s outcrops tree group remnant community	10ag(i)	Ceg [9+] Epip [1] Al [1] Ac	up to 60-80+ 20-30+ 15-20+ <5	up to 4-5m 8m 4m <0.5m	up to 3-4m 4m 5m <0.5m	good v.poor good good/ regen.	varies: 4-5	low	fragmented	steep embankment/ exotic garden; largely cleared/ modified; Ceg (dom.) significant group/ possibly older age structure; Epip [1]-ext. die-back (70%)/ epicormic growth; natives [<i>Entolasia</i> , <i>Lomandra</i> , <i>Dianella</i> , <i>Pandorea</i> spp.]; Ac regen.; Pu regrowth; <i>Cyathea</i> sp.- cultivated origin; exotics/ weeds.		
Area B(ii): remnant bushland-lower scarp/ rock outcrops to inter-tidal zone adj. to 1st Northbridge Sea Scouts	s/s scarp s/s outcrops two trees remnant community		Ac [1] Ac [1] Mv [1]	80-100+ 80-100+ unknown	8m 9m <1.5m	10m 12m <0.5m	good good good/ multi-stem	varies: 2-5	high-low			exotic gardens/ largely cleared & modified; Ac [2]- old growth specs./ 1X Ac- <i>Monstera</i> sp. on trunk; 1 X Ac- multi-trunk (2) specimen; natives [incl. <i>Myrsine variabilis</i> , <i>Grevillea linearifolia</i> , <i>Acacia terminalis</i> , <i>Eustrephus</i> , <i>Smilax</i> , <i>Stephania</i> , <i>Pteridium</i> , <i>Imperata</i> , <i>Lomandra</i> , <i>Themeda</i> spp.]; exotics/ weeds [incl. <i>Lantana</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.].	
Area B(iii): core bushland-northern foreshore track between 1st Northbridge Sea Scouts & Retreat Reserve lower steep slope/ rock outcrops	s/s outcrops core bushland community	10ag(i)	Ac/ Epip Pu (dom.) Er/ Had Bint/ Al	up to 80-100+ up to 30-40+ up to 20-30+ up to 30-40+	up to 12-18m up to 7-9m up to 5-7m up to 6-8m	varies varies up to 3-4m up to 5-7m	varies regrowth good good	varies: 1-2 [mainly 1]	high	contiguous		largely intact native canopy [Ac/ Epip] incl. old growth specimens; diverse native understorey [<i>Banksia integrifolia</i> <i>Allocasuarina</i> , <i>Elaeocarpus</i> , <i>Hakea</i> , <i>Dodonaea</i> , <i>Leucopogon</i> , <i>Pteridium</i> <i>Zieria</i> , <i>Lomandra</i> spp.]; minimal weeds.	
Note: Sailors Bay Park - Area B(iii) adjoins Retreat Reserve - Area A(i). For Retreat Reserve listing refer to The Bulwark - Public Reserves.													
Sortie Port - Residential Properties:											Survey Date: 25 Jan-29 Jan 2010		
2 Sortie Port: rear garden/ adj. to rear bdy. to reserve	single tree	10ar(i)	Gf [1]	50-60+	7m	8m	good	5	low	restricted	T&BPO	exotic garden; weeds.	
Sortie Port - Road Reserves, Drainage Easements & Public Pedestrian Linkages:											Survey Date: 8 Mar-12 Mar 2010		
Note: Road reservation contains many examples of cultivated local natives of unknown provenance which are not included in this schedule.													
For island at intersection of Sortie Port/ Edinburgh Road refer to Edinburgh Road - Road Reserves, Drainage Easements & Public Pedestrian Linkages.													
For island at intersection of Sortie Port/ The Redoubt/ The Rampart refer to The Rampart - Road Reserves, Drainage Easements & Public Pedestrian Linkages.													
rock pavement/ roadway cutting: adj. to bdy. No.1 Sortie Port	s/s outcrops s/s cutting	10ar(i)					regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock shelf/ cutting; mulched beds; contiguous w.rock shelf adj. to bdy. No.2 The Rampart (see listing); possibly some native regen. [<i>Acacia</i> <i>suaveolens</i> , <i>Wahlenbergia</i> spp.]; mixed generic/ local native planting (unknown provenance); Pu regrowth.	

												Survey Date: 25 Jan-29 Jan 2010
public verge/ embankment: adj. to bdy. No.2 Sortie Port	s/s outcrops	10ar(i)	Pu/ Gf	up to 5-10+	up to 3m	up to 3m	regrowth	5	low	restricted	T&BPO	significant s/s outcrops; mulched; Pu/ Gf regrowth [mesic shift]; no other regen./ all restoration planting [<i>Acacia</i> , <i>Dodonaea</i> , <i>Banksia</i> spp.]; weeds.
												Survey Date: 8 Mar-12 Mar 2010
island in roadway intersection: Sortie Port/ The Bastion [opp. Nos.4 & 6 Sortie Port]	tree group s/s outcrops s/s cutting remnant community	10ar(i)	Gf [1]	40-50+	7m	7m	good	5	low	restricted	T&BPO	roadway island w. raised s/s edging/ rock outcrops & road cutting [Inter-war period/ Griffin layout- cultural heritage element]; highly modified/ dom.weeds [<i>Ehrharta</i> sp.]; successive planting overlays/ gen.natives [incl. <i>Casuarina</i> <i>glauca</i> , <i>Corymbia maculata</i> , <i>Euc.</i> <i>elata</i> , <i>Leptospermum</i> , <i>Melaleuca</i> spp.] Epu, Ac, Eha/ saplings - likely planted; lower rock outcrops/ shelf w. possible remnant natives/ regen. [incl. <i>Kunzea</i> , <i>Ceratopetalum</i> , <i>Darwinia</i> , <i>Persoonia</i> , <i>Epacris</i> , <i>Wahlenbergia</i> , <i>Austrostipa</i> , <i>Dianella</i> , <i>Entolasia</i> spp.]/ inter-mixed w. restoration overlay (unknown provenance) [<i>Allocasuarina distyla</i> , <i>Ozothamnus</i> , <i>Baeckea</i> , <i>Callistemon</i> , <i>Callitris</i> , <i>Dodonaea</i> spp.].
lower rock shelf			Epu [1] Ac[1]/ Eha[1] Ka Al/ Ka Ac/ Gf/ Ceg	10-15+ 10-15+ up to 5-10+ <5 <5	9m 5-7m up to 2-4m <2m <1m	5m 4-6m varies varies <0.5m	good good good good/ regen. good/ regen.	varies: 4-5				
Note: For further details of road island management history refer to <i>Griffin Reserves Plan of Management - Inventory of Road Islands</i> [L-3] (Lehany & Walker for WCC, 1997) .												
												Survey Date: 25 Jan-29 Jan 2010
public grass verge: adj. to bdy. No.1 The Battlement [Sortie Port frontage]	two trees	10ar(i)	Ac [1] Eha [1]	20-30+ 20-30+	12m 9m	8m 14m	good see notes	5	low	restricted	T&BPO	Eha [1]- insect damage/ large cavity; Ac/ Eha- likely cultivated/ part of group planting [Eucs.].
island in roadway intersection: Sortie Port/ The Battlement intersection	tree group	10ar(i)	Era [1] Al [2] Epu [1] Ac [1]	10-15+ 10-15+ 10-15+ 5-10+	8m 7m 7m 5m	6m 7m 7m 2m	good good good good	5	low	isolated	T&BPO	roadway island w. raised s/s edging [Inter-war period/ Griffin- designed]; cultivated gen. natives [<i>Corymbia</i> sp.]; all trees likely restoration planting/ also [<i>Kunzea</i> , <i>Grevillea</i> , <i>Lomandra</i> spp.]; no native regen. evident.
Note: For further details of road island management history refer to <i>Griffin Reserves Plan of Management - Inventory of Road Islands</i> [L-2] (Lehany & Walker for WCC, 1997) .												
Sortie Port - Public Reserves:												Survey Date: 25 Jan-29 Jan 2010
For Lookout Reserve refer to The Parapet - Public Reserves.												
Sunnyside Crescent - Residential Properties:												Survey Date: 6 Jan-10 Jan 2014
20 Sunnyside Cres: front garden/ lawn area	single tree	10ar(i)/ 10ag(i)	Ceg [1]	?80-100+	4m	4m	good	5	low	isolated	T&BPO	exotic terraced garden; Ceg [1]- old growth multi-stemmed specimen.
24 Sunnyside Cres: front garden/ upper rock outcrops	s/s outcrops single tree	10ar(i)/ 10ag(i)	Gf [1]	20-30+	5m	4m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s outcrops & formations contiguous w. Nos.26 & 28

												[see listings]; remnant native g/covers [<i>Pteridium</i> sp.]; generic native planting; dom. weeds [<i>Asparagus</i> sp.]
26 Sunnyside Cres: front garden/ rock outcrops	s/s outcrops	10ar(i)/ 10ag(i)	Ahis/ Be/ Bs	10-15+	varies	varies	good	5	low	restricted	T&BPO	exotic garden; significant s/s outcrops & formations contiguous w. Nos.24 & 28 [see listings]; no rem. native g/covers; Ahis/ Be/ Bs - likely cultivated origin; generic native planting; dom. weeds.
28 Sunnyside Cres: front garden/ rock outcrops	s/s outcrops single tree	10ar(i)/ 10ag(i)	Gf [1] Eha [1]	20-30+ 5-10+	5m 4m	3m 3m	good good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s outcrops & formations contiguous w. Nos.24 & 26 [see listings]; remnant native g/covers [<i>Calochlaena</i> , <i>Dianella</i> spp.]; Eha [1]- likely cultivated origin; dom. weeds.
42 Sunnyside Cres: rear garden/ upper rock outcrops adj. to rear bdy. to No.147 Edinburgh Rd	s/s outcrops single tree	10ar(i)	Fru [1]	?100-150+	7m	16m	good	5	low	isolated	T&BPO	exotic garden; significant s/s outcrops & formations; Fru [1]- old growth multi- trunk spec. on rock outcrops; dom. weeds [<i>Delairea odorata</i> syn. <i>Senecio mikanoides</i> , <i>Lantana</i> sp.].
48 Sunnyside Cres: front garden/ rock outcrops	s/s outcrops	10ar(i)/ 10ag(i)						5	low	restricted	T&BPO	exotic terraced garden; significant rock outcrops; no remnant native spp.
Sunnyside Crescent - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 6 Jan-10 Jan 2014
<i>Note: Road reservation contains examples of immature [up to 20-30 yrs+] cultivated local natives of unknown provenance which are not included in this schedule.</i>												
public verge: adj. to front bdy. No.42 Sunnyside Crescent	single tree	10ag(i)	Esi [1]	?80-100+	14m	15m	see notes	5	low	fragmented	T&BPO	mown grass verge; Esi [1]-possibly old growth spec./ some dead wood (15%) insect damage/ cavities & lopping/ new growth; no remnant native g/covers.
public verge: adj. to public reserve between Nos.71 & 75 Sunnyside Crescent	two tree	10ag(i)	Gf [2]	?80-100+	7m	12m [total]	good	5	low	restricted	T&BPO	mown grass verge; Gf [2]-possibly old growth multi-stemmed specs./ basal coppicing from old cut stumps.
The Barbette - Residential Properties:												Survey Date: 2 Aug-6 Aug 2010
2 The Barbette: upper garden/ terrace [east bdy.]	tree group s/s outcrops	10ar(i)/	Pu [dom.]	up to 20-30+	up to 4-5m	varies	regrowth	5	low	restricted	adj.SEPP 19 /T&BPO	Griffin residence/ Inter-war period/ built 1929; owner (63 years)/ discussed local species richness pre-1950s incl. many spp.- Fabaceae/ Proteaceae families now absent]; serious weed invasion post-1950s/ septic tanks & dramatic loss of native canopy trees since 1990s/ residential development; significant rock outcrops; Epip [1]- old growth spec./ 1200mm DBH/ some dead wood; gen./ local native planting (unknown provenance) in lower rear
rear garden/ lower steep slope to cleared lawn & bdy. to reserve	s/s scarp	10ag(i)	Epip [1] Pu [dom.] As [1] Ka/ Be Eha/ Bs	80-100+ up to 20-30+ 20-30+ up to 5-10+ up to 5-10+	10m up to 5-6m 6m up to 3-4m up to 3-4m	15m varies 6m varies varies	good regrowth good good good					

												garden/ lawn [incl. Bint, Eha, Bs, Be, Ka/ possibly As X1]; mown grass bdy. to reserve.
4 The Barbette: front garden/ rock outcrops	tree group s/s outcrops	10ar(i)/	Gf [1] Gf [1] Ac [1]	60-80+ 50-60+ <10	6m 7m 4m	8m 4m 2m	good see notes fair	5	low	restricted	adj.SEPP 19 /T&BPO	mulched garden bed; significant rock outcrops; Gf [1]- dead wood/ cavity; Ac [1]- likely planted.
rear garden/ lower level adj. to cleared lawn & bdy. to reserve		10ag(i)	Ac [1] Ka/ Be	60-80+ up to 10-15+	10m up to 3-6m	7m varies	good good					generic native planting/ restoration (unknown provenance) [incl. Bint, Ka, Be, Ahis/ <i>Dianella</i> , <i>Xanthorrhoea</i> spp.] mown grass bdy. to reserve.
6 The Barbette: front garden/ west bdy. & adj. to driveway	tree group s/s outcrops	10ar(i)/	Era [1] Era [1]	80-100+ 60-80+	9m 9m	12m 7m	good good	5	low	restricted	adj.SEPP 19 /T&BPO	Era [1]- old growth spec./ adj. to bdy. No.8; Era [1]- in garden bed adj. to driveway/ vigorous epicormic growth.
rear garden/ upper west bdy. lower slope/ gully		10ag(i)	Ac [1] Gf [1] Pu Ac [1]	?100-150+ 40-50+ up to 40-50+ 10-15+	12m 7m up to 7-8m 6m	16m 8m varies 2m	good good/ regrowth good/ regrowth good					terraced exotic garden [upper level]; significant rock outcrops; Ac [1]- v.old growth multi-trunked spec./ 1300mm DBH; subject to bdy. survey; cleared open lawn [lower level/gully]; <i>Cyathea</i> sp.- cultivated origin; dom. exotics/ weeds; no site access.
8 The Barbette: front garden	single tree s/s outcrops	10ar(i)/						5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic garden; gen.native planting [incl. <i>Corymbia</i> , <i>Syzygium</i> , <i>Cyathea</i> spp.].
rear garden/ adj. to bdy. No.10		10ag(i)	Ceg [1]	10-15+	3m	2m	good					
9 The Barbette: rear garden/ southern bdy. embankment adj. to pedestrian right-of-way	single tree	10ag(i)	Epip [1]	80-100+	14m	12m	fair	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO	exotic garden; subject to bdy. survey; Epip [1]-old growth spec./ext. die-back & dead wood; remnant natives [incl. <i>Pteridium</i> sp.]; dom. weeds.
10 The Barbette: front garden/ upper level	tree group s/s outcrops	10ar(i)/	Era [1] Gf [1]	60-80+ 20-30+	9m 7m	12m 6m	good good	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic garden; Era [1]- in western courtyard/ some dead wood.
rear garden/ steep lower slope		10ag(i)	Ceg [1] Gf [1] Pu [dom.]	30-40+ 20-30+ up to 20-30+	4m 5m up to 5-6m	2m 5m varies	good good good/ regrowth					significant rock outcrops; cleared/ mulched; subject to boundary survey; no access.
12 The Barbette: front garden/ rock shelf/ outcrops	s/s outcrops	10ar(i)/						5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	generic native planting; subject to bdy. survey/ see listing for public verge.
rear garden/ mid-level [upper] adj. to pool and decks	tree group s/s outcrops		Cgu [1] Ceg[1]/ Er[1]	50-60+ 15-20+	9m 4-6m	7m varies	good good					no access; significant rock outcrops/ very steep slope; Epip [1]- old growth multi-trunked spec./ ext. dead wood; Ac [1]-old growth spec./heavily lopped w. epicormic growth; natives [<i>Banksia spinulosa</i> , <i>Hypolepis</i> [dom.], <i>Pteridium</i> spp.]; subject to boundary survey.
lower steep slope & rock outcrops to reserve	remnant community	10ag(i)	Epip [1] Ac [1] Ceg [1] Al [1] Pu [dom.]	80-100+ 80-100+ 60-80+ 30-40+ 20-30+	6m 7m 5m 5m 4-6m	10m 2m 4m 4m varies	fair good/lopped good good good/ regrowth	varies: 2-5	high-low	fragmented		
14 The Barbette: rear garden/	tree group	10ar(i)/	Epip [1]	?100-150+	10m	15m	good	varies: 3-5	medium-low	fragmented	adj.SEPP 19	exotic garden; Epip [1]- v.old growth

upper level adj. to deck	s/s outcrops		Cgu [1]	80-100+	12m	12m	good				/T&BPO SREP 23	multi-trunked [5] spec./ massive base 1500mm DBH; Cgu [1]- old growth spec./some dead wood; dom. weeds [<i>Cinnamomum</i> , <i>Ligustrum</i> , <i>Asparagus</i> <i>Nephrolepis</i> , <i>Hedychium</i> spp.].
mid-level scarp to lower level adj. to reserve	s/s scarp remnant community	10ag(i)	Epip [1] Pu [dom.] Ceg [dom.] Er [dom.] Ac [1] Al [2] Bs [1] Cgu [1] Gf	40-50+ up to 30-40+ up to 20-30+ up to 10-20+ 40-50+ up to 20-30+ 60-80+ 30-40+ <5	12m up to 5-6m up to 4m up to 5-7m 9m up to 4-5m 3m 7m <0.5m	10m varies 1-3m 1-3m 8m varies 7m 4m <0.5m	good good/ regrowth good good/ regrowth good good good poor/ lopped good/ regen.					significant rock outcrops/ scarp; many dead stags [standing trees- Cgu/Epip]; significant remnant native tree group/ understorey/ high biodiversity [incl. <i>Grevillea linearifolia</i> , <i>Gahnia</i> , <i>Dianella</i> , <i>Homalanthus</i> , <i>Lomandra</i> , <i>Pteridium</i> , <i>Crowea</i> , <i>Entolasia</i> , <i>Smilax</i> spp.]; no access to lower level/ subject to boundary survey.
adj. to bdy. No.12 adj. to bdy. No.16												
16 The Barbette: front garden/ adj. to carport & pathway	tree group	10ar(i)/	Era [1]	80-100+	8m	12m	good	5	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic garden; Era [1]- old growth multi-trunked specimen.
rear garden/ steep lower slope & scarp to reserve boundary	s/s outcrops s/s scarp	10ag(i)	Ac [1] Pu [dom.]	60-80+ up to 10-15+	9m up to 5m	10m varies	fair good/ regrowth	varies: 4-5				significant rock outcrops/scarp; Ac [1]- multi-trunked [2]/ dead wood; subject to bdy. survey; dom. exotics/ weeds [incl. <i>Ligustrum</i> , <i>Nephrolepis</i> spp.]; <i>Cyathea</i> sp./ cultivated origin.
The Barbette - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 19 Jul-23 Jul 2010
<i>Note: Road reservation contains many examples of cultivated local natives of unknown provenance which are not included in this schedule.</i>												
island in roadway intersection: The Barbette/ The Bastion	tree group remnant community	10ar(i)	Cgu [1] Cgu [1] Cgu [1] Cgu [2] <i>Ahis</i> [1]	80-100+ 30-40+ 30-40+ 20-30+ <i>10-15+</i>	10m 8m 9m 8-9m <i>1m</i>	12m 5m 6m 5-6m <i>3m</i>	see notes fair fair fair [1]/ good [1] <i>fair</i>	varies: 2-4	high-low	restricted	T&BPO	roadway island w. raised s/s edging & low wall [Inter-war period/ Griffin designed- cultural heritage element]; significant remnant native [Cgu] group incl. Cgu [1]- old growth spec./lopping history/epicormic growth & ext.cavities; Cgu [2]/ fair- dead wood; also 2 X old dead stumps; gen. native planting [incl. <i>Eucalyptus microcorys</i> , <i>E. paniculata</i> , <i>E. saligna</i> (saplings/ regen.)]; <i>Ahis</i> - likely cultivated; restoration overlay (unknown provenance) possibly mixed w. remnant native spp. [<i>Dodonaea</i> (dom.), <i>Polyscias</i> , <i>Xanthorrhoea</i> , <i>Dianella revoluta</i> , <i>Acacia suaveolens</i> , <i>Lomandra longifolia</i> , <i>L. filiformis</i> , <i>Entolasia</i> , <i>Histiopteris</i> , <i>Kennedia</i> , <i>Hardenbergia</i> spp.]; minimal weeds.
<i>Note: For further details of road island management history refer to Griffin Reserves Plan of Management - Inventory of Road Islands [L-4] (Lehany & Walker for WCC, 1997) .</i>												
rock outcrops/ roadway cutting:	s/s outcrops	10ar(i)						5	low	restricted	T&BPO	significant rock outcrops/ road cutting;

adj. to Nos. 1-3 The Barbette	s/s cutting											gen. native planting [Bint/ Bs, Eucs.];
central island in cul-de-sac [adj. to pedestrian right-of-way]	tree group	10ar(i)	Era [1] Abin [1] Abin [1]	60-80+ 20-30+ 10-15+	4m 8m 3m	6m 18m 6m	good good good/ lopped	varies: 4-5 [mainly 5]	low	restricted	T&BPO	highly modified/ dom. exotics/ weeds [<i>Ehrharta</i> sp.]; remnant Era [1]- dead wood/ vigorous epicormic growth; native g/covers at base [<i>Themeda</i> , <i>Aristida</i> spp.]; Abin [2]-likely self-sown (unknown provenance)/ Abin X1- pruned under o'head powerlines.
Note: For further details of road island management history refer to <i>Griffin Reserves Plan of Management - Inventory of Road Islands</i> [L-13] (Lehany & Walker for WCC, 1997) .												
pedestrian right-of-way/ steps linking The Barbette/The Redoubt & Watergate Reserve [Sailors Bay Track]	tree group remnant community	10ar(i)/ 10ag(i)	Ceg [3] Gf [1] As [1] Pu [dom.]	up to 60-80+ 15-20+ 20-30+ up to 30-40+	5-6m 5m 3m up to 5-8m	2-4m 2m 3m varies	good regrowth good/ lopped regrowth	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO	highly modified/ disturbed community; dom. exotics/ weeds [incl. <i>Erythrina</i> , <i>Ligustrum</i> , <i>Cinnamomum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.]; Ceg [3]/ group- adj. to rear bdy.No.9 The Redoubt; As [1]- likely planted; remnant natives [incl. <i>Homalanthus</i> , <i>Calochlaena</i> , <i>Pteridium</i> spp.]; <i>Cyathea</i> sp./ cultivated origin.
public verge/ garden: adj. to No.6 The Barbette	single tree	10ar(i)	Cgu [1]	30-40+	7m	5m	fair	5	low	restricted	T&BPO	exotic garden; Cgu [1]- dead wood/ ext. epicormic growth; generic native planting; subject to bdy. survey.
public verge/ garden: adj. to No.8 The Barbette	tree group	10ar(i)	Gf [1] Pu [dom.]	20-30+ up to 10-15+	8m 3-4m	7m varies	regrowth regrowth	5	low	restricted	T&BPO	exotic garden; Pu/ Gf regrowth group; Gf [1]- pruned for o'head powerlines; <i>Cyathea</i> sp.- cultivated origin.
rock outcrops/ roadway cutting: adj. to No.10 The Barbette	s/s outcrops s/s cutting tree group remnant community	10ar(i)	Cgu [1] Cgu [2] Era [1] Pu [dom.]	60-80+ 30-40+ 50-60+ up to 10-15+	10m 7-10m 6m 3-4m	10m 5-6m 7m varies	good fair [1]/ good [1] good regrowth	varies: 4-5	low	restricted	T&BPO	significant rock outcrops/ road cutting; terraced garden beds; significant native tree group; Cgu [1]- some pruning for o'head powerlines; exotics/ generic native planting & current restoration strategy [<i>Xanthorrhoea</i> , <i>Dodonaea</i> , <i>Lomandra</i> spp.- all possibly planted]; subject to bdy.survey [see listing for No.10 The Barbette].
rock outcrops/ roadway cutting: adj. to No.12 The Barbette	s/s outcrops s/s cutting tree group remnant community	10ar(i)	Cgu [1] Cgu [1] Ceg/ Ka	10-20+ <5 <5	7m 3m up to 1.5m	4m 2m varies	good good good	varies: 4-5	low	restricted	T&BPO	significant rock outcrops/ road cutting; contiguous w. front garden [No.12 The Barbette -see listing]; gen. native planting & current restoration strategy [incl. <i>Grevillea buxifolia</i> , <i>Xanthorrhoea</i> , <i>Dodonaea</i> , <i>Themeda</i> spp.]; Ceg/ Ka possibly planted; subject to bdy.survey

The Barbette - Public Reserves:

Survey Date: 19 Jul-23 Jul 2010

Watergate Reserve (Warners Bay Group)

Watergate Reserve is a major bushland reserve scheduled as SEPP 19: Bushland in Urban Areas (Public Open Space) in the Willoughby City Bushland Plan of Management (2000).

Watergate Reserve listings are divided into **Areas A(i-iii)-B(i-iii)** [refer to aerial photos] as follows:

Area A(i): remnant bushland- steep upper slope adj. to entry/ exit to The Redoubt & The Barbette [Sailors Bay Track]	s/s outcrops s/s scarp remnant community	10ag(i)/	Pu [dom.] Gf	up to 30-40+ up to 40-50+	up to 5-6m up to 8m	varies varies	regrowth regrowth	varies: 3-5 [mainly 5]	medium-low	fragmented	adj.SEPP 19 /T&BPO SREP 23	highly modified/ disturbed community; dead stags common; dom. exotics/ weeds [incl. <i>Erythrina</i> , <i>Cinnamomum</i> , <i>Ligustrum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.]; natives [<i>Pteridium</i> , <i>Homalanthus</i> , <i>Calochlaena</i> , <i>Parsonsia</i> spp.]; <i>Cyathea</i> sp./ cultivated origin.
Area A(ii): core bushland- Sailors Bay Track/ upper steep slope/ steps	core bushland community s/s scarp s/s outcrops		Ac [dom.] Esi Bs Ceg [dom.] Er/ Cal/ Gf Pu [dom.]	up to 80-100+ up to 80-100+ up to 80-100+ up to 80-100+ up to 20-40+ up to 20-30+	up to 20-25m up to 18-20m up to 6-7m up to 7-9m up to 5-7m up to 5-7m	up to 20m up to 20m varies up to 3-6m varies	varies varies good good good good/ regrowth	varies: 1-3 [mainly 1-2]	high-medium	contiguous		steep slope; significant rock outcrops/ scarp; varying level of disturbance/ some fragmentation of native canopy; significant old growth/ multi-stemmed stands of <i>Ceratopetalum gummiferum</i> (dom.); native understorey/ high bio- diversity [incl. <i>Crowea saligna</i> , <i>Acacia</i> <i>terminalis</i> / <i>A. ulicifolia</i> , <i>Leucopogon</i> <i>amplexicaulis</i> , <i>Grevillea linearifolia</i> , <i>Pteridium</i> , <i>Histiopteris</i> , <i>Calochlaena</i> , <i>Gleichenia dicarpa</i> / <i>G. rupestris</i> , <i>Caustis flexuosa</i> , <i>Notelaea</i> , <i>Gahnia</i> , <i>Xanthosia</i> , <i>Smilax</i> , <i>Epacris</i> , <i>Entolasia</i> , <i>Lomandra</i> spp.]; weeds [<i>Ligustrum</i> , <i>Nephrolepis</i> , <i>Lantana</i> spp.].
Area A(iii): core bushland- Sailors Bay Track/ mid-level scarp to steep lower slopes & creek-line		10ag(iii)	Cea [dom.]	up to 100-150+	up to 14-18m	up to 12m	good					steep slope; significant rock outcrops/ scarp; varying level of disturbance/ largely intact closed-forest canopy/ stand- <i>Ceratopetalum apetalum</i> (dom.) (Coachwood) incl. many significant old growth/ multi-stemmed specimens; relatively sparse native understorey [incl. <i>Cyathea australis</i> , <i>Blechnum</i> <i>cartilagineum</i> , <i>Adiantum aethiopicum</i> , <i>Doodia caudata</i> , <i>Stephania japonica</i> var. <i>discolor</i>] & epiphytes [<i>Asplenium</i> , <i>Platyserium</i> spp.].
Area B(i): remnant bushland- creek/ foreshore & tidal flats below scarp/ rock outcrops adj. to Sailors Bay Track [lower eastern link track]	s/s outcrops s/s scarp remnant community	10ag(iii)/ 10ag(i)	Cea [dom.] Ceg/ Cal Al/ Er Bs/ Be Pu [dom.] Cya	up to 30-60+ up to 60-80+ up to 30-40+ up to 20-40+ up to 50-60+ up to 20-30+	up to 6-8m up to 4-7m up to 4-7m up to 3-6m up to 5-7m up to 3-4m	up to 5-7m varies varies varies varies up to 2-3m	good good good good good/ regrowth good	varies: 2-5	high-low	fragmented		steep slope; significant rock outcrops/ scarp; varying level of disturbance/ fragmentation & weed invasion [incl. <i>Ligustrum</i> , <i>Lantana</i> , <i>Nephrolepis</i> , <i>Ochna</i> , <i>Lonicera</i> , <i>Tradescantia</i> spp.]; native understorey [<i>Cyathea australis</i> , <i>Callicoma</i> , <i>Ceratopetalum</i> , <i>Banksia</i> ,

												<i>Allocasuarina, Bauera, Lomatia, Gahnia, Smilax</i> spp.]; ferns [dom.] [<i>Todea barbara</i> (incl. old specimens), <i>Blechnum cartilagineum, Histiopteris, Calochlaena, Gleichenia, Doodia</i> spp.] <i>Cyathea cooperi</i> -likely cultivated origin naturalised/ up to 40-50yrs+.
Area B(ii): core bushland-steep slope/ rock outcrops adj. to Sailors Bay Track [below The Barbette]	core bushland community s/s scarp s/s outcrops	10ag(i)	Epip/ Ac Ceg/ Bs Al/ Er Pu/ Gf	up to 80-100+ up to 60-80+ up to 30-40+ up to 20-30+	up to 12-16m up to 5-7m up to 4-7m up to 5-7m	varies varies varies varies	varies good good good/ regrowth	varies: 1-3	high-medium		steep slope; significant rock outcrops/ scarp; varying level of disturbance/ some fragmentation of native canopy; dead standing trees [stags]; ferns [incl. <i>Calochlaena/ Gleichenia</i> spp.(dom.)];	
Area B(iii): core bushland-eastern portion of track [see Rockley Street listings]			Epip/ Ac Ceg/ Bs Al/ Er Pu	up to 80-100+ up to 60-80+ up to 30-40+ up to 20-30+	up to 15-18m up to 5-7m up to 4-7m up to 5-7m	good varies varies varies	varies good good good/ regrowth	varies: 1-2 [mainly 1]	high	contiguous	grading to intact native canopy/ under-storey/ minimal weeds/ disturbance [eastern portion- see Rockley Street listings]; high biodiversity [<i>Cyathea australis, Calochlaena</i> (dom.), <i>Caustis Grevillea, Bauera, Xanthorrhoea, Lomandra, Smilax, Acianthus</i> spp.].	
The Barbican - Residential Properties:												Survey Date: 6 Sep-10 Sep 2010
1 The Barbican: front garden/ upper level adj. to cnr. The Barbican/ Rockley Street (Map Ref: 7 Rockley Street)	tree group s/s outcrops	10ar(i)/ 10ag(i)	Ac [4] Eha [2] Abin [1]	30-50+ 15-20+ 20-30+	7-10m 7-9m 10m	3-5m 4-8m 9m	good fair good	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO	significant remnant native tree group/ part of larger contiguous native group [see other listings for The Barbican]; listings subject to boundary survey; Eha [2]- possibly cultivated; Abin [1]- likely planted; Ac [1]- v.old outstanding spec./ 1000mm DBH; generic native planting [incl. <i>Euc. paniculata</i>]. exotic garden; Eha [1]- likely planted.
pool courtyard/ raised planter			Ac [1]	?100-150+	12m	18m	good	5				
rear garden/ lower level [adj. to vehicular right-of-way]			Eha [1]	10-15+	7m	5m	good					
2 The Barbican: rear garden/ upper level [cnr. Rockley Street/ The Barbican frontage]	tree group s/s outcrops remnant community	10ar(i)/ 10ag(i)	Ac [1] Pu [dom.] Ceg [1] Had [1] Eha [1] Epip [1] Ac [1]	80-100+ up to 20-30+ 20-30+ 20-30+ 20-30+ 80-100+ 40-50+	10m up to 4-5m 5m 7m 9m	15m varies 2m 5m 5m	good regrowth good fair good see verge listing see verge listing	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; Ac [1]-old growth spec.; part of larger contiguous native group [see adj. public verge listings]; owner confirmed bdy. survey; remnant native g/covers assoc. w. significant rock outcrops [incl. <i>Pteridium, Lomandra, Dianella</i> spp.]; ext. mixed local/ gen. native planting [<i>Banksia spinulosa</i> var. <i>collina, Leptospermum</i> sp./ Bint]; also Eha/ Ceg/ Had, <i>Lambertia formosa, Grevillea linearifolia, Dianella</i> sp.(bed) likely planted (unknown provenance).

3 The Barbican: right-of-way between bdy. Nos.1 & 5 The Barbican & Sailors Bay Park [upper section of driveway]	tree group s/s outcrops remnant community	10ar(i)/	Ac [1] Gf [2] Gf [1]	80-100+ 5-10+ 10-15+	9m 2.5m 6m	8m 1.5m 4m	good good good	varies: 3-5 [mainly 5]	medium-low	fragmented	adj.SEPP 19 /T&BPO	vehicular right-of-way; bdy. confirmed by owner No.5; Ac [1]- old growth spec./ some dead wood; natives [incl. <i>Pteridium</i> , <i>Imperata</i> , <i>Dianella</i> spp.]; dom. exotics/ weeds [incl. <i>Asparagus</i> , <i>Nephrolepis</i> spp.].
<i>Note: For old growth Epip [1]/ Ac [1] on scarp adj. to carport [in Sailors Bay Park] - refer to Rockley Street: Public Reserves - Sailors Bay Park [Area A(ii)]</i>												
lower terraced gardens/ eastern terrace bdy. to reserve [below upper scarp]	s/s scarp two trees	10ag(i)	Al [1] Bint [1]	20-30+ 20-30+	8m 8m	4m 4m	v.poor good	varies: 4-5 [mainly 5]	low			terraced exotic garden; significant s/s scarps [upper & lower levels] & rock outcrops; Bint [1]- possibly cultivated origin; Pu regrowth; listings subject to bdy. survey; dom. weeds [incl. <i>Ligustrum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Ochna</i> , <i>Genista</i> spp.].
5 The Barbican: front garden	tree group remnant community	10ar(i)	Gf [1] Ceg [1] Ac [3]/ Bs [1]	50-60+ 30-40+ up to 5-10+	7m 6m up to 4m	6m 2m varies	good lopped good	varies: 3-5 [mainly 5]	medium-low	fragmented	T&BPO	old exotic garden/ restoration strategy overlay; Gf [1]- multi-trunk [2]/ old base regrowth; Ac [1]- old growth spec.; owner/ resident >1950s confirmed local provenance/ ex situ translocation & seeding local natives [incl. <i>Ecam</i> [1]/ <i>Xanthorrhoea</i> sp.]; Ac [3]/ saplings & Er/ Bs- natural regen.; native g/covers [incl. <i>Pteridium</i> , <i>Lomandra</i> , <i>Dianella</i> spp.]; also gen.native planting [Bint]. <i>Note: Ecam [1]- Eucalyptus camfieldii</i> ex situ seed sourced from Northbridge/ listed as Vulnerable (Schedule 2-TSC Act/ EPBC Act) ROTAP: 2VCi; owner confirmed survey bdy. of right-of-way/ scarp to No.3 The Barbican.
rear garden/ adj. to vehicular right-of-way			Ac [1] Ac [1] Er/ Bs <i>Ecam</i> [1]	80-100+ 40-50+ <5 10-15+	9m 6m up to 2-3m 1m	15m 7m <1m 1.5m	good good good/ regen. good					
lower east lawn/ rock shelf & upper scarp adj. to carport [No.3 The Barbican]			Ac [1] Fru [1]	?100-150+ 20-30+	12m 3m	15m 5m	fair good					significant rock outcrops/ scarp; Ac [1]- v.old spec./ext. dead wood & vigorous new epicormic growth; natives [incl. <i>Xanthorrhoea</i> , <i>Smilax</i> , <i>Eustrephus</i> , <i>Stephania</i> , <i>Pandorea</i> , <i>Lomandra</i> , <i>Dianella</i> spp.]; Pu regrowth.
7 The Barbican: rear garden/ paved courtyard [top of scarp]	tree group s/s outcrops	10ar(i)	Fru [1] Ac [2]	60-80+ 80-100+	7m 10m	12m 12-15m	good fair [1]/ good [1]	5	low	fragmented	T&BPO	exotic garden; significant s/s scarp & rock outcrops; Fru [1]- on upper scarp face; Ac [2]- old growth specimens on rock shelf/ Ac X1-fair- ext. dead wood/ <i>Platyserium</i> sp. on trunk; dom. weeds [<i>Lantana</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.]; no access.

11The Barbican: front garden/ upper level adj. to public verge	tree group s/s outcrops	10ag(i)/	Gf [1] Pu	30-40+ up to 20-30+	6m up to 5-6m	7m varies	see notes regrowth	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; Gf [1]- leaning trunk; natives [<i>Adiantum hispidulum</i>]; Pu regrowth; weeds [<i>Asparagus</i> sp.].
rear garden/ scarp [lower level] on bdy. to No.102 The Bulwark	s/s scarp	10ag(iii)	Fru [1]	30-40+	4m	12m	good/ lopped					significant s/s scarp, rock outcrops & overhang; not recorded as Aboriginal archaeological site [see listings for No.102 The Bulwark & Nos.3-7 The Barbican]; Fru [1]- multi-stemmed spec. on scarp-face/ heavily pruned/ subject to bdy.survey; weed thicket [incl. <i>Ligustrum</i> , <i>Ochna</i> , <i>Asparagus</i> , <i>Setaria</i> , <i>Nephrolepis</i> spp.].
The Barbican - Road Reserves, Drainage Easements & Public Pedestrian Linkages:											Survey Date: 6 Sep-10 Sep 2010	
public verge/ rock outcrops: adj. to bdy. No.1 The Barbican (Map Ref: 7 Rockley Street) [The Barbican frontage]	tree group s/s outcrops remnant community	10ar(i)/ 10ag(i)	Ac [1] Cgu [1] Ac [1] Ac [1] Ac [2]	40-50+ 60-80+ 10-15+ 60-80+ 10-15+	7m 12m 4m 10m 3-4m	5m 9m 2m 10m 1-2m	good fair good/ lopped good good [1]/ lopped [1]	varies: 3-5	medium-low	fragmented	T&BPO	grass verge/ significant rock outcrops; significant remnant native tree group/ part of larger contiguous group [see verge listing adj. No.2 The Barbican]; Cgu [1]/ fair- dead wood/ epicormic growth; Ac x2 saplings/ lopped under o'head power-lines; remnant natives [incl. <i>Dodonaea triquetra</i> , <i>Dianella caerulea</i> var. <i>producta</i> , <i>D. revoluta</i> , <i>Lomandra</i> , <i>Pteridium</i> , <i>Pandorea</i> spp.] gen. native planting [<i>Leptospermum</i> , <i>Agonis</i> spp.]; min. weeds.
<i>For listings on public verge adj. to No.1 The Barbican [Rockley Street frontage] refer to Rockley Street - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
terraced garden & public verge: adj. to bdy. No.2 The Barbican [cnr. Rockley Street/ The Barbican frontage]	tree group s/s outcrops remnant community	10ar(i)/ 10ag(i)	Epip [1] Ac [1] Ac [1] Ac [4] Eha [1] Abin [1] Pu	80-100+ 40-50+ 60-80+ 30-50+ 20-30+ 15-20+ up to 20-30+	9m 10m 14m 7-12m 9m 4m up to 4-6m	10m 7m 15m 5-7m 5m 4m varies	see notes good good good [3]/ fair [1] good good/ lopped good/ regrowth	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	significant remnant native tree group/ part of larger contiguous group [see listing for No.2 The Barbican]; owner confirmed survey bdy.; Epip [1]- old growth spec./ large basal cavity; Ac X1 fair- damaged trunk/dead wood; native g/covers assoc. w. significant rock outcrops [incl. <i>Pteridium</i> , <i>Lomandra</i> , <i>Dianella</i> spp.]; also mixed local/ gen. native planting [<i>Euc. saligna</i> , <i>Banksia</i> , <i>Lambertia</i> , <i>Dianella</i> spp.(bed)]/ likely planted (unknown provenance); Eha/ Abin- likely planted ; exotics/ weeds [incl. <i>Nephrolepis</i> , <i>Asparagus</i> spp.].
<i>For listings on public verge adj. to No.2 The Barbican [Rockley Street frontage] refer to Rockley Street - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
public verge/ rockery: adj. to front bdy. & driveway No.5 The Barbican	single tree	10ar(i)	Ac [1]	20-30+	9m	4m	good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; generic/ local native restoration planting [see listing No.5]; Ac [1]- part of remnant/ regen. group;

												native g/covers [incl. <i>Lomandra</i> , <i>Dianella</i> spp.].
public verge/ embankment: adj. to front bdy. No.7 The Barbican	tree group	10ag(i)	Ac [2] Ac [3]	20-30+ 60-80+	7-8m 9-12m	3-4m 6-12m	good good [2]/ fair [1]	5	low	fragmented	T&BPO	exotic garden bed; significant native tree group/ part of larger contiguous group in The Barbican [see listings]; Ac [2]- possibly epicormic multi-stem regrowth on old growth stump/ base; Ac [3]/ fair X1-ext. dead wood/ lopped under o'head power-lines/ remove <i>Hedera</i> sp. on trunk; listings subject to boundary survey.
central island in cul-de-sac	single tree remnant community	10ag(i)	Ac [1] Gf [1]	50-60+ <5	10m 1.5m	7m 0.5m	good good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	roadway island w. raised s/s edging; [Inter-war period/Griffin layout- cultural heritage element]; highly disturbed/ modified community; remnant natives [incl. <i>Sticherus flabellatus</i> (noted in 1996 report), <i>Stephania</i> , <i>Calochlaena</i> spp.]; successive gen./ local native overlays (unknown provenance) [incl. <i>Euc. saligna</i> , <i>Grevillea linearifolia</i> , <i>Acacia</i> , <i>Dianella</i> spp.]; exotics/weeds.
Note: For further details of road island management history refer to <i>Griffin Reserves Plan of Management - Inventory of Road Islands</i> [L-15] (Lehany & Walker for WCC, 1997) .												
The Barricade - Residential Properties:											Survey Date: 25 Jul-29 Jul 2011	
1 The Barricade: north garden/ [The Scarp frontage]	tree group s/s outcrops	10ag(i)	Bs [1]	80-100+	6m	7m	good	5	low	fragmented	T&BPO	exotic garden; Bs [1]- adj. to bdy./ old growth spec./ remove <i>Hedera</i> sp.
north-eastern garden [The Barricade frontage]			Ceg [2]	30-40+	4-6m	4-5m	good					rock outcrops; Pu regrowth; weeds [<i>Olea</i> , <i>Asparagus</i> spp.]; see verge listing [Ac] adj. to bdy. No.1.
3 The Barricade: eastern garden [upper]	s/s outcrops tree group remnant community	10ag(i)	Ceg [2] Ceg [1]	80-100+ 15-20+	5m 3m	8m [total] 2m	good good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; Ceg [2]- old growth multi-stemmed [6+] group+ <i>Pteridium/ Adiantum</i> spp. assoc.w. significant s/s outcrops; Pu regrowth; gen. natives/ cultivated origin [<i>Leptospermum</i> sp.]; weeds [<i>Phyllostachys</i> , <i>Nephrolepis</i> spp.]; listings subject to bdy. survey.
7 The Barricade: rear garden/ lower bdy./ lawn area [below pool deck]	s/s outcrops tree group	10ag(i)	Fru [1]	15-20+	3m	7m	good	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	significant s/s outcrops; exotic garden; Fru [1]- adj. to bdy. No.9; dom. weeds [incl. <i>Hedychium</i> , <i>Cardiospermum</i> , <i>Setaria</i> , <i>Tradescantia</i> spp.]; <i>Cyathea</i> sp.- cultivated origin; no access.
9 The Barricade: front garden/ upper level adj. to driveway	s/s outcrops tree group	10ag(i)	Gf [1] Gf [1]	60-80+ 30-40+	8m 6m	8m 7m	good good	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic garden; Gf [1]/ adj. to bdy. No.9- pruning under o'head powerlines; Gf [1]/ adj. to bdy. No.11.

rear garden/ lower steep slope to rear bdy. to reserve			Ceg [2] Ceg [5] Bs [1] Ceg/ Gf/ Cal	80-100+ up to 50-60+ 80-100+ up to 5-10+	6-8m 3-7m 7m up to 1.5m	2-5m 3-4m 4m <1m	good/ fair god good good/ regen.	varies: 3-5	medium-low	fragmented		highly disturbed/ modified community; Ceg/ significant group- incl. old growth/ specs.; Bs [1]- old growth spec.; Pu regrowth [dom.]; remnant natives [incl. <i>Acacia terminalis</i> , <i>Homalanthus</i> , <i>Pteridium</i> , <i>Hypolepis</i> , <i>Dianella</i> spp.]; gen. native planting [incl. <i>Prostanthera</i> sp.]; <i>Cyathea</i> sp.-cultivated origin; dom. exotics/ weeds [<i>Tradescantia</i> , <i>Setaria</i> , <i>Ehrharta</i> spp.]; no access.
11 The Barricade: front garden/ upper level adj. to bdy. 11A The Barbican right-of-way	single tree	10ag(i)	Ac [1]	10-15+	7m	5m	good	5	low	fragmented	T&BPO	exotic garden/ weeds; Ac [1]- likely origin- Ac X1 in upper driveway 11A The Barricade [see listing below].
11A The Barricade: front garden/ upper level/ right-of-way driveway and lower terrace	s/s outcrops s/s scarp tree group	10ag(i)	Ac [1] Ac [1] Ac [1]	?100-150+ 50-60+ ?100-150+	12m 10m 12m	16m 10m 16m	good good good	5	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant s/s scarp, rock outcrops & formations; exotic terraced garden; no access; Ac [1]/ upper driveway- v. old growth spec.; Ac [1]/ adj. to mid-level steps; Ac [1]/ lower terrace adj. to house- v. old growth spec./ some dead wood; some weeds [<i>Olea</i> sp.].
rear garden/ lower south-east bdy. to reserve			Esi [1] Bs [1]	30-40+ 20-30+	9m 3m	12m 5m	fair good	varies: 4-5 [mainly 5]		contiguous		terraced garden; Esi [1]- ext. dead wood; some remnant natives [incl. <i>Xanthorrhoea</i> , <i>Smilax</i> spp.].
15 The Barricade: front garden/ upper level/ steep slope to gully adj. to The Haven Amphitheatre	s/s outcrops s/s scarp tree group	10ag(i)/ 10ag(iii)	Ac [1]	20-30+	12m	6m	good	5	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant s/s scarp & rock outcrops; listings subject to bdy. survey; terraced exotic garden; no access.
rear garden/ lower slope to east/ rear bdy. adj. to Castlehaven Reserve	remnant community		Ceg [1] Cgu [1] Al/ Er/ Gf	20-30+ 15-20+ up to 5-10+	5m 6m up to 3-4m	3m 2m varies	good fair good/ regen.	varies: 2-5 [mainly 4-5]	high-low	contiguous		Cgu [1]- some dead wood; remnant native understorey [incl. <i>Grevillea linearifolia</i> , <i>Calochlaena</i> , <i>Pteridium</i> , <i>Bauera</i> , <i>Polyscias</i> , <i>Smilax</i> , <i>Lomandra</i> , <i>Dianella</i> spp.]; Bs X1- on bdy.; Bs [3]/ group assoc.w. rock outcrops +colony of <i>Cryptostylis</i> sp.[ground orchids]; good natural regen.; local & gen.native mixed planting/ (unknown provenance) [incl. <i>Leptospermum</i> , <i>Prostanthera</i> , <i>Eriostemon</i> , <i>Phebalium</i> spp.]; <i>Cyathea</i> sp.-cultivated origin; dom. weeds [incl. <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Setaria</i> spp.].
lower south-west bdy. to No. 11A The Barricade & rear bdy. to reserve			Bs [3] Epip/ Er	40-50+ <5	3-6m <1m	4-7m <1m	good good/ regen.	varies: 1-3	high-medium			
The Barricade - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 25 Jul-29 Jul 2011
public verge/ rock outcrops: adj. to driveway & bdy.	single tree s/s outcrops	10ag(i)	Ac [1]	80-100+	14m	15m	good	5	low	contiguous	T&BPO	rock outcrops; subject to bdy. survey; Ac [1]- multi-trunked [2] old growth

No.1 The Barricade												spec./ 1000mm DBH; dom. exotics/ weeds [<i>Nephrolepis</i> , <i>Asparagus</i> spp.].
easement/ public access between Nos.3 & 5 The Barricade & rear bdy. Nos. 52-56 The Bulwark [linking to Casement Reserve]	s/s outcrops single tree	10ag(i)	As [1]	10-15+	4m	3m	good	5	low	restricted	adj.SEPP 19 /T&BPO	rock outcrops; As [1]- likely planted; highly disturbed/ modified; dom.weeds [incl. <i>Ligustrum</i> , <i>Asparagus</i> , <i>Parietara</i> , <i>Tradescantia</i> spp.]; NB. <i>Euc. saligna</i> / <i>E. botryoides</i> in No.5/ verges- all gen. native planting.
central island in cul-de-sac [opp. Nos.5-11 The Barricade]	tree group	10ag(i)	Had/ Ahis	up to 15-20+	up to 3m	up to 2-3m	good/ fair	5	low	restricted	T&BPO	roadway island w. raised s/s edging; [Inter-war period/Griffin layout- cultural heritage element]; highly modified/ generic/ local native planting [Had/ Ahis, <i>Xanthorrhoea</i> , <i>Leptospermum</i> , <i>Grevillea</i> , <i>Hardenbergia</i> , <i>Acacia</i> spp.- likely planted/ unknown provenance]; dom. weeds [<i>Ehrharta</i> sp.].
The Barricade - Public Reserves:												Survey Date: 25 Jul-29 Jul 2011
<i>For Haven Amphitheatre refer to The Scarp - Public Reserves.</i>												
The Bartizan - Residential Properties:												Survey Date: 20 Sep-24 Sep 2010
2 The Bartizan: front garden/ lower level	s/s outcrops	10ag(i)/	Al [1]	10-15+	7m	4m	poor	5	low	restricted	T&BPO	exotic garden; Al [1]- ext. die-back & competition w. <i>Phoenix</i> sp.; no access.
east garden between deck & pedestrian right-of-way	s/s scarp tree group remnant		Ceg [1]	60-80+	5m	4m	good					Ceg [1]- competition w. <i>Jacaranda</i> sp.
rear garden/ rock outcrops & scarp adj. to reserve bdy. & pedestrian right-of-way	community	10ar(i)	Esi [1] Bs [1] Bs [1] Had [1] Er [6+] Pu/ Gf	80-100+ 60-80+ ?40-50+ 20-30+ up to 15-20+ up to 20-30+	12m 5m 3m 4m up to 5-7m up to 5-7m	18m 3m 7m 3m up to 2-4m varies	good poor see notes good good good/ regrowth	varies: 3-5 [mainly 5]	medium-low	fragmented	T&BPO	significant s/s scarp & rock outcrops/ formations [large boulders]; significant remnant native group; Esi [1]- old growth spec.; Bs [1]/poor- possibly old growth spec./ ext. die-back; Bs [1]/ notes- on reserve bdy./ prostrate trunk scrambling over rocks; remnant native understorey [Had/ Er, <i>Homalanthus</i> , <i>Histiopteris</i> , <i>Hypolepis</i> , <i>Smilax</i> spp.]; Er [6+]- some/ all possibly planted; other gen. native planting [<i>Euc. elata</i> , <i>Cyathea cooperi</i> , <i>Callitris</i> sp.]; dom. weeds [<i>Cinnamomum</i> , <i>Senna</i> , <i>Olea</i> , <i>Hedychium</i> , <i>Asparagus</i> , <i>Tradescantia</i> spp.]; listings subject to bdy. survey.
4 The Bartizan: front garden/ adj. to bdy. No.2	s/s outcrops	10ag(i)/	Al [1]	5-10+	4m	3m	good					exotic garden; gen. native planting [<i>B. ericifolia</i>]; weeds [<i>Asparagus</i> sp.].
rear garden/ upper scarp & rock pavement adjoining	s/s scarp tree group remnant	10ar(i)	Er [1]	15-20+	5m	2m	good					significant s/s scarp & rock outcrops/ rock pavement; Er [1]-adj. bdy. No.2;

Oriel Reserve	community												remnant natives [<i>Pteridium</i> , <i>Hypolepis</i> spp.]; exotic planting on easement/ Oriel Reserve; subject to bdy. survey; no access.
For listings [incl. <i>Ficus rubiginosa</i>] on upper easement and Oriel Reserve refer to The Citadel - Public Reserves.													
6 The Bartizan: rear garden/ upper steep slope adj. to easement & Buttress Reserve	s/s outcrops s/s scarp single tree	10ar(i)/ 10ag(i)	Ac [1] Al/ Be/ Ceg	80-100+ up to 5-10+	12m up to 2m+	16m varies	good good	5	low	restricted	T&BPO	exotic garden; significant s/s scarp & rock outcrops; no access/ subject to bdy. survey; Ac [1]- old growth spec./ some dead wood/ die-back (10%); remnant natives [incl. <i>Wahlenbergia</i> , <i>Hypolepis</i> spp.]; gen. & local native planting [Al/ Be/ Ceg- all likely planted]	
For Buttress Reserve & adjoining easement listings refer to The Citadel - Public Reserves and Road Reserves, Drainage Easements & Public Pedestrian Linkages.													
The Bartizan - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 1 Nov-5 Nov 2010	
central island in cul-de-sac: The Bartizan	s/s outcrops s/s cutting remnant community	10ar(i)	Crho [3] Ap [dom.] Ac [1] Ahis/ Ceg Al/ Er Pu/ Gf	15-20+ 5-10+ 5-10+ up to 5-10+ up to 5-10+ <5	4-7m up to 3m 4m up to 3-4m up to 5-6m up to 2m	2m varies 3m varies varies <1.5m	good regrowth good good good regrowth	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	roadway island w. raised s/s edging; [Inter-war period/ Griffin layout- cultural heritage element]; highly disturbed/ modified community; significant s/s cutting & rock outcrops; cleared (pre-1996) w.successive overlays; mainly restoration planting/ gen.& local natives (unknown provenance) [incl. <i>Acacia parramattensis</i> [dom.], <i>Angophora hispida</i> , <i>Allocasuarina</i> , <i>Ceratopetalum</i> , <i>Elaeocarpus</i> , <i>Callitris</i> , <i>Xanthorrhoea</i> <i>Kennedia</i> , <i>Stephania</i> , <i>Lomandra</i> , <i>Dianella</i> spp.]; <i>Euc. botryoides</i> - self-sown/ cultivated origin; weeds [incl. <i>Acetosa</i> , <i>Pavonia</i> , <i>Ehrharta</i> spp.].	
Note: For further details of road island management history refer to <i>Griffin Reserves Plan of Management - Inventory of Road Islands [L-16] (Lehany & Walker for WCC, 1997)</i> .													
The Bartizan - Public Reserves:												Survey Date: 25 Oct-29 Oct 2010	
For Buttress Reserve listing (incl. easement between No.6 The Bartizan & No.49 The Bulwark) refer to The Citadel - Public Reserves.													
The Bastion - Residential Properties:												Survey Date: 2 Aug-6 Aug 2010	
1 The Bastion: front garden	tree group s/s outcrops	10ag(i)	Ac [1] Ceg [1] Gf [1]	60-80+ 20-30+ <5	9m 3m 2m	12m 2m 1.5m	good good/ lopped good	5	low	restricted	T&BPO	exotic garden; Ac [1]- adj. to driveway/ garage; Ceg [1]- multi-stemmed/ possibly planted; gen. native planting [incl. <i>Corymbia citriodora</i> , <i>Euc.</i> sp.].	
4 The Bastion: front garden	tree group s/s outcrops	10ar(i)	Era [1] Ceg [1] Er [1]	80-100+ 40-50+ <5	7m 5m 1.5m	9m 2m 1m	fair/ lopped good/lopped good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; Era [1]-old growth multi-trunk [2] spec./ 1X trunk lopped w. epicormic growth; Ceg [1]- adj. to bdy. No.2; part of larger significant remnant native tree group [see listing: No.6 The Bastion & verge]; native g/cover [incl. <i>Dianella</i> sp.] dom. weeds.	

6 The Bastion: front garden/ upper east slope	tree group s/s outcrops	10ar(i)	Era [1]	?100-150+	10m	18m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	current building site; subject to bdy. survey; no access; Era[1]- old growth outstanding multi-trunk spec./ massive base; Cgu [1]/ Era [1]/ fair- some dead wood; part of larger significant remnant native tree group [see listing: No.4 & verges]; current issues- builders waste/ dumping/ compaction & altered soil profiles; weeds [<i>Asparagus</i> sp.].
lower slope/ east cnr.			Esi [1] Cgu [1] Gf [1]	15-20+ 20-30+ 15-20+	7m 7m 6m	3m 2m 4m	good fair good					
rear garden/ adj. to bdy. No.4			Era [1]	50-60+	8m	7m	fair					
9 The Bastion: front garden	tree group	10ar(i)	Era [1] Era [1] Ac [1]	80-100+ 40-50+ 20-30+	8m 7m 10m	12m 6m 5m	good see notes good	5	low	restricted	T&BPO	exotic garden; Era [1]-old growth spec. upper lawn area/ some dead wood; Era [1]/ adj. to bdy.No.11-basal cavity; gen. native planting [<i>Euc. saligna</i> X2/ <i>Corymbia citriodora</i>].
10 The Bastion: front garden/ upper terrace	single tree	10ar(i)	Gf [1]	20-30+	6m	5m	good/lopped	5	low	restricted	T&BPO	exotic garden; gen. native planting.
												Survey Date: 8 Mar-12 Mar 2010
16 The Bastion: rear garden/ rock outcrops/ upper rock shelf	s/s outcrops remnant community	10ar(i)	Ka [dom.] Had [1]	up to 15-20+ 15-20+	up to 3m up to 3m	up to 2m up to 3m	good/ regen. v.poor	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s outcrops; some remnant natives [<i>Dianella</i> sp.]; Pu regrowth: generic native planting.
												Survey Date: 2 Aug-6 Aug 2010
19 The Bastion: rear garden/ lawn area	two trees	10ag(i)	Era [1] Ceg [1]	?40-50+ 20-30+	1m 5m	<0.5m 1m	lopped good	5	low	fragmented	T&BPO	exotic terraced garden; Era [1]- lopped 1m HT/ stump w. lignotuber growth; Ceg [1]- likely planted.
												Survey Date: 8 Mar-12 Mar 2010
20 The Bastion: front garden	two trees	10ar(i)	Gf [1] Ac [1]	20-30+ 20-30+	8m 9m	7m 9m	good good	5	low	restricted	T&BPO	exotic garden/ lawn; Gf [1]- adj. to bdy. No.22; Ac [1]- likely planted.
												Survey Date: 25 Jan-29 Jan 2010
21 The Bastion: front garden/ on front bdy. to public verge	single tree	10ar(i)/	Fru [1]	30-40+	6m	6m	good/ lopped	5	low	restricted	T&BPO	exotic garden; Fru [1]- lopped/ aligned for o'head powerlines.
rear garden/ gully below scarp	s/s scarp s/s outcrops	10ag(i)/ 10ag(iii)										significant s/s scarp & rock outcrops; native ferns [<i>Cyathea</i> , <i>Pteris</i> spp.]/ likely cultivated origin; exotic garden; dom. weeds.
The Bastion - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 2 Aug-6 Aug 2010
<i>Note: Road reservation contains many examples of cultivated local natives of unknown provenance which are not included in this schedule.</i>												
<i>For island at intersection of The Bastion/ The Barbette refer to The Barbette - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
<i>For island at intersection of The Bastion/ Sortie Port refer to Sortie Port - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
public verge/ embankment: adj. to front bdy. No.2 The Bastion	two trees	10ar(i)	Era [1] Era [1]	60-80+ 20-30+	7m 12m	9m 12m	v.poor good	5	low	restricted	T&BPO	Era [1]/v.poor- multi-trunk [2] spec./ competition w. gen. native planting [<i>Euc. microcorys</i>]; also <i>Corymbia</i>

												<i>citriodora</i> ; Era [1]/ good- likely planted.
public verge/ embankment: adj. to front bdy. No.4 The Bastion	tree group s/s outcrops	10ar(i)	Era [1] Had [1] Al [1] Gf [1] Be [1]	80-100+ 30-40+ 15-20+ <5 20-30+	9m 5m 7m <0.5m 6m	15m 4m 3m <0.5m 3m	poor good fair good/ regen. v.poor	varies: 4-5 [mainly 5]	low	restricted	T&BPO	Era [1]/poor- old growth multi-trunk [2] spec./ possibly much older/ ext. dead wood & die-back/ epicormic growth; part of larger remnant significant native tree group [see listings]; Be[1]- likely planted; <i>Allocasuarina torulosa</i> X1- cultivated; weeds [<i>Nephrolepis</i> sp.].
public verge/ embankment: adj. to front bdy. No.6 The Bastion	tree group s/s outcrops	10ar(i)	Era [1] Ac [1] Ac [1] Gf [4]	60-80+ 20-30+ 15-20+ 15-20+	9m 7m 6m 4-5m	10m 5m 3m 4-5m	fair good good good/ regrowth	varies: 4-5 [mainly 5]	low	restricted	T&BPO	Era [1]/fair- dead wood; Ac [1]- dead wood/ vigorous epicormic growth; part of larger remnant significant native tree group [see listings for Nos.4 & 6 The Bastion.
public verge/ embankment:& rock outcrops adj. to front bdy. Nos.12 & 14 The Bastion	tree group s/s outcrops s/s cutting	10ar(i)	Cgu [1] Epip [1] Fru [1] Bs[1]/ As[1] Ahis [1] Pu	80-100+ 250-60+ 20-30+ 10-15+ 10-15+ up to 30-40+	12m <1m 4m up to 4-5m 4m up to 5m	15m <1m 7m up to 3m 3m varies	fair/ lopped lopped good good fair good/ regrowth	varies: 4-5 [mainly 5]	low	restricted	T&BPO	terraced garden; road-side cutting/ significant rock outcrops; Cgu [1]- old growth multi-trunk [2] spec./ heavily pruned/ some dead wood; Epip [1]- lopped to base/ multi-trunked [3] w. vigorous epicormic regrowth; natives [<i>Pteridium</i> sp.]; ext. generic native planting/ local native overlay [<i>Banksia</i> <i>spinulosa</i> , <i>Acacia</i> spp.]; Bs/ As/ Ahis- all likely planted.
The Bastion - Public Reserves:												Survey Date: 25 Jan-29 Jan 2010
For Embrasure Reserve refer to The Battlement - Public Reserves.												
The Battlement - Residential Properties:												Survey Date: 25 Jan-29 Jan 2010
5 The Battlement: front garden/ lawn area	single tree	10ar(i)	Eha [1]	60-80+	9m	10m	good	5	low	isolated	T&BPO	exotic garden; Eha [1]- some dead wood in crown.
9 The Battlement: rear garden/ upper terrace	single tree	10ar(i)	Ac [1]	50-60+	8m	8m	poor	5	low	restricted	T&BPO	terraced exotic garden; Ac[1]- ext. die- back w. no new growth/ vigour.
												Survey Date: 15 Mar-19 Mar 2010
27 The Battlement: rear garden/ lower level adj. to reserve bdy. Gargoyle Reserve [incl. section of public walking track]	s/s outcrops s/s scarp tree group remnant community	10ar(i)	Ac [1] Had/ Er	60-80+ up to 15-20+	10m up to 2-4m	7m varies	fair varies	varies: 4-5 [mainly 5]	low	restricted	T&BPO	subject to bdy. survey [walking track on private land]; dom. weeds [<i>Acetosa</i> sp.]; Ac [1]/ fair- sparse canopy/ dead wood; local & generic native overlay [incl. <i>Acacia</i> , <i>Dianella</i> spp.]; Had/ Er- likely planted; some remnant native g/covers [incl. <i>Hypolepis</i> sp.].
31 The Battlement: rear garden/ lower slope adj. to reserve bdy. Gargoyle Reserve	s/s outcrops s/s scarp two trees	10ar(i)	Epip [2]	<5	2m	1m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops/ scarp; native ferns [incl. <i>Gleichenia</i> , <i>Hypolepis</i> spp.]; <i>Cyathea</i> sp. [dom.] cultivated origin;

												Epip X2 - likely planted/ also Es X1 (6m HT); dom. weeds [<i>Nephrolepis</i> , <i>Tradescantia</i> , <i>Senna</i> spp.]; subject to reserve bdy. survey.	
32 The Battlement: rear garden/	single tree	10ar(i)	Bs [1]	20-30+	8m	6m	good	5	low	restricted	T&BPO	exotic garden; Bs [1]- possibly planted.	
33 The Battlement: rear garden/ upper scarp adj. to drainage reserve & bdy. No.31	single tree	10ar(i)	Ac [1]	50-60+	8m	7m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; Ac [1]- some insect damage; natives [<i>Calochlaena</i> sp.]; <i>Cyathea</i> sp./ Ceg X1 (front garden)/ cultivated origin; dom. weeds [<i>Arundo</i> , <i>Ligustrum</i> , <i>Acetosa</i> , <i>Nephrolepis</i> spp.].	
												Survey Date: 25 Jan-29 Jan 2010	
36 The Battlement: front garden/ sandstone outcrops/ rock shelf	single tree	10ar(i)	Ac [1]	30-40+	9m	7m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden on rock shelf/ subject to bdy. survey; natives [incl. <i>Dianella</i> , <i>Histiopteris</i> , <i>Wahlenbergia</i> spp.]; gen. native planting [<i>Euc. elata</i>]; weeds.	
37 The Battlement: front garden/ upper level on front bdy. to No.35	tree group	10ar(i)	Ac [1]	60-80+	12m	15m	good	5	low	fragmented	T&BPO	exotic garden; Ac [1]-some pruning for o'head powerlines/ remove climber on trunk [<i>Parthenocissus</i> sp.].	
rear garden/ lower level below pool & scarp [adj. boundary to Gargoyle Reserve]	s/s outcrops s/s scarp		Pu [dom.]	up to 20-30+	up to 5-6m	varies	regrowth	varies: 4-5 [mainly 5]				significant s/s outcrops/ scarp w.assoc. native ferns [<i>Adiantum hispidulum</i> , <i>A. aethiopicum</i> , <i>Blechnum</i> spp.]; gen. native planting [Bint/ <i>Euc. botryoides</i>]- top of scarp; dom. exotics/ weeds.	
40 The Battlement: front garden/ lawn adj. to rock shelf/ outcrops & roadway	two trees s/s outcrops	10ar(i)	Era [1] Era [1]	50-60+ 20-30+	9m 8m	12m 8m	good fair	5	low	restricted	T&BPO	grass verge; significant s/s outcrops; Era [1]/ fair- insect damage/ ext. dead wood; Era X2- possibly single tree; listing subject to boundary survey.	
The Battlement - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 8 Feb-12 Feb 2010	
For island at intersection of The Battlement/ Sortie Port refer to Sortie Port - Road Reserves, Drainage Easements & Public Pedestrian Linkages.													
rock outcrops/ roadway cutting: adj. to No.14 The Battlement	s/s outcrops s/s cutting	10ar(i)						varies: 4-5 [mainly 5]	low	restricted	T&BPO	remnant native g/covers assoc. w. significant rock outcrops/ cutting [incl. <i>Gleichenia</i> , <i>Adiantum</i> spp.]; <i>Cyathea</i> sp.-cultivated origin; no native canopy; dom. weeds [incl. <i>Nephrolepis</i> sp.].	
public verge: adj. to bdy. No.17 The Battlement	single tree s/s outcrops	10ar(i)	Eha [1]	60-80+	8m	12m	good/ lopped	5	low	isolated	T&BPO	mulched garden bed; Eha [1]- heavily lopped for o'head powerlines; exotics.	
rock outcrops/ roadway cutting: adj. to Nos. 20-30 [even nos.] The Battlement	s/s outcrops s/s cutting remnant community	10ar(i)	Fru [1]	<5	<0.5m	<0.5m	regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	more or less contiguous section of remnant native ferns & g/covers assoc. w. significant rock outcrops/ roadway cutting [incl. <i>Blechnum camfieldii</i> , <i>Todea barbara</i> , <i>Gleichenia dicarpa</i> / <i>G.</i>	

												microphylla, <i>Pteridium</i> , <i>Wahlenbergia</i> spp.]; <i>Cyathea</i> , <i>Pteris</i> , <i>Adiantum</i> spp.- likely cultivated origin; native canopy absent; dom. weeds [incl. <i>Nephrolepis</i> sp.]; current maintenance focus on broad-scale weed clearance/alignment along cutting & loss of native g/covers; recommend review of strategy.
rock outcrops/ roadway cutting: adj. to No. 32 The Battlement	s/s outcrops s/s cutting single tree remnant community	10ar(i)	Ac [1]	15-20+	<1m	<1m	good/ lopped	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops/ road cutting; more or less contiguous w. above listing [Nos. 20-30]; Ac [1]- vigorous epicormic growth on lopped base; some remnant natives g/covers [incl. <i>Wahlenbergia</i> sp.]; dom. weeds.
rock outcrops/ roadway cutting: adj. to Nos. 34-36 The Battlement	s/s outcrops s/s cutting single tree remnant community	10ar(i)	Ac [1]	10-15+	<0.5m	<1m	lopped	varies: 4-5 [mainly 5]	low	restricted	T&BPO	Ac[1]- lopped/ herbicide-possibly dead; significant rock outcrops/ road cutting; more or less contiguous w. No.32; significant group of remnant native ferns & g/covers [<i>Blechnum nudum</i> , <i>Gleichenia</i> , <i>Histiopteris</i> , <i>Calochlaena</i> , <i>Adiantum</i> , <i>Psilotum</i> , <i>Wahlenbergia</i> spp.]; <i>Cyathea</i> sp.- cultivated origin; dom. weeds [incl. <i>Nephrolepis</i> sp.].
												Survey Date: 15 Mar-19 Mar 2010
public grass verge: adj. to bdy. No.35 The Battlement	single tree	10ar(i)	Ac [1]	?100-150+	12m	22m	good	5	low	fragmented	T&BPO	grass verge; Ac [1]- v.old growth multi-trunk/ outstanding specimen (1400mm DBH)/ some dead wood.
island in roadway intersection: The Battlement/ The Citadel [opp. Nos.37, 38 & 40 The Battlement & Nos.7 & 9 The Citadel]	s/s outcrops remnant community	10ar(i)	Eha/ Ahis Ka Bs [1]	up to 10-15+ up to 10-15+ 10-15+	up to 3-4m up to 2.5m 3m	varies up to 3m 5m	good fair good	5	low	restricted	T&BPO	central roadway island w. significant rock outcrops/ rock shelf & raised s/s edging; [Inter-war period/ Griffin layout-cultural heritage]; highly disturbed/ modified community; Eha/ Ahis/ Bs/ Ka, Bint (dom.), Hakea, Xanthorrhoea Themeda, Dianella, Lomandra spp.- all restoration/ cultivated planting overlay (unknown provenance); mulched; no native regen.; dom. weeds [incl. <i>Ehrharta</i> sp.].

Note: For further details of road island management history refer to *Griffin Reserves Plan of Management - Inventory of Road Islands* [L-5] (Lehany & Walker for WCC, 1997) .

The Battlement - Public Reserves:

Survey Date: 25 Jan-29 Jan 2010

Embrasure Reserve

Embrasure Reserve is a small bushland reserve **[not scheduled SEPP 19]** located between The Battlement & The Bulwark. The reserve is bordered by residential development.

An 'embrasure' is the opening in a battlement between two raised solid sections or 'merlons', a likely reference to the significant scarp and steep narrow gully in this location.

public reserve adj. to rear bdy. Nos. 5-17 The Battlement/ 89-97 The Bulwark & 21-25 The Bastion: steep gully & creek-line below scarp [The Battlement]	s/s scarp s/s outcrops tree group remnant community	10ag(i)/ 10ag(iii)	Epip [1] Epip [1] Gf [1] Pu/ Gf Ceg Epip/ Ac Epu [1] Cea Er/ Cal	80-100+ 60-80+ 60-80+ up to 30-50+ up to 20-30+ <5 20-30+ up to 10-15+ up to 15-20+	15m 15m 12m up to 6-10m up to 6m <1m 15m up to 6-8m up to 4-6m	22m 12m 10m varies varies <0.5m 10m up to 3-4m varies	v.poor good good regrowth good good/ regen? good good good	varies: 3-5 [mainly 5]	medium-low	restricted	T&BPO	highly modified reserve/ landscaping; significant s/s scarp, rock outcrops & overhang/ not recorded as Aboriginal archaeological site ; dom. weed thicket [incl. <i>Erythrina</i> , <i>Ligustrum</i> , <i>Lantana</i> , <i>Phyllostachys</i> , <i>Cestrum</i> , <i>Nephrolepis</i> , <i>Ochna</i> , <i>Tradescantia</i> spp.]; remnant native canopy trees- Epip [1]- v.poor/ old growth spec./ ext. die-back (90%); Epip [1]- some dead wood; [Ac X1- see listing: No.91 The Bulwark]; some native understorey [mesic shift] Pu/Gf regrowth; some remnant native under- storey/ferns [incl. <i>Calochlaena</i> (dom.), <i>Pteridium</i> , <i>Blechnum</i> , <i>Histiopteris</i> , <i>Todea</i> , <i>Breynia</i> , <i>Smilax</i> , <i>Pandorea</i> , <i>Entolasia</i> , <i>Oplismenus</i> spp.]; reserve under current restoration strategy/ earlier gen. native/ rainforest planting (dom.) [incl. <i>Brachychiton</i> , <i>Alectryon</i> , <i>Syzygium</i> , <i>Livistona</i> , <i>Archontophoenix</i> <i>Toona</i> , <i>Syncarpia</i> + misc. Eucs. spp.]; Epu/ Cea/ Er/ Cal + <i>Cissus antarctica</i> , <i>Clematis</i> sp.] - likely planted/ <i>Cyathea</i> sp.(dom.)/ cultivated origin.
Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-7] (<i>Lehany & Walker for WCC, 1997</i>) .												
Gargoyle Reserve Gargoyle Reserve is a small landscaped/ remnant bushland reserve [not scheduled SEPP 19] located between The Battlement & The Bulwark. The reserve is bordered by residential development.												
public reserve adj. to rear bdy. Nos. 29-37 The Battlement & 79-81 The Bulwark: steep slope/ gully [incl. drainage reserve & pedestrian right-of- way/ linking to Embrasure & Oriel Reserves]	s/s scarp s/s outcrops waterfall tree group remnant community	10ag(i)/ 10ag(iii)	Ac [1] Pu [dom.] Er [2]	60-80+ up to 40-50+ 15-20+	18m up to 8-10m 4-5m	12m varies varies	good regrowth good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	highly modified reserve/ landscaping; steep slope/gully; significant s/s scarp, rock outcrops & intermittent natural creek/ waterfall; dom. weed thicket/ lower section of reserve inaccessible; subject to bdy. survey; weeds [incl. <i>Ligustrum</i> , <i>Arundo</i> , <i>Lantana</i> , <i>Alpinia</i> , <i>Nephrolepis</i> , <i>Alocasia</i> , <i>Tradescantia</i> spp.]; Ac [1]- single remnant native canopy tree adj. to upper rear bdy.No. 79 The Bulwark/ some dead wood/ crown die-back; Pu (dom.) regrowth; remnant native ferns & g/covers [incl. <i>Hypolepis</i> , <i>Asplenium</i> , <i>Plectranthus</i> , <i>Wahlenbergia</i> , <i>Commelina</i> , <i>Dianella</i>

												spp.]; <i>Ficus coronata</i> , <i>Cyathea</i> / <i>Pteris</i> spp.-likely cultivated origin; mixed gen. native planting [<i>Callistemon</i> , <i>Acacia</i> , <i>Syncarpia</i> , <i>Leptospermum</i> spp.].
For pedestrian right-of-way linking to Oriel Reserve refer to The Citadel - Road Reserves, Drainage Easements & Public Pedestrian Linkages. Note: For further details of reserve's management history refer to Griffin Reserves Plan of Management - Inventory of Reserves [R-6] (Lehany & Walker for WCC, 1997).												
The Bulwark - Residential Properties:												Survey Date: 20 Dec-24 Dec 2010
1 The Bulwark: front garden/ upper lawn terrace	tree group	10ag(i)	Ac [1]	50-60+	14m	10m	good	5	low	fragmented	T&BPO	terraced exotic garden/ steep slope; significant remnant native [Ac dom.] tree group; Ac [1]/ lopped- ext. dead wood/ competition w. <i>Liquidambar</i> sp.; Ac [1]/ good- competition w. <i>Cedrus</i> sp.]; also Al X1- standing dead tree; Pu regrowth; <i>Cyathea</i> sp.- cultivated origin; dom. exotics/ weeds [<i>Olea</i> , <i>Cinnamomum</i> , <i>Ligustrum</i> , <i>Ochna</i> , <i>Lantana</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.]; listings subject to bdy. survey.
steep embankment adj. to cul-de-sac			Ac [1] Ceg [1] Ac [1] Al [1]	60-80+ 20-30+ 50-60+ 20-30+	7m 4m 10m 6m	7m 2m 6m 4m	fair/ lopped good good good					
For adjoining road verge/ cul-de-sac and private right-of-way [linking to Edinburgh Road] refer to The Bulwark - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
For Ac [1] listing adj. to northern bdy. No.2 The Bulwark refer to The Bulwark - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
For odd numbers starting No.3 The Bulwark refer to listings following 28 The Bulwark [Note: 2A-16 The Bulwark access via private right-of-ways]												
												Survey Date: 12 Dec-16 Dec 2011
2A The Bulwark: south garden/ lower embankment to right-of- way Nos. 8A-8C The Bulwark.	s/s outcrops s/s scarp tree group	10ag(i)	Ac [1] Ac [1]	50-60+ 15-20+	10m 7m	8m 5m	good good	5	low	fragmented	T&BPO	exotic garden; no access; significant s/s outcrops; listings subject to bdy. survey; dom. weeds [<i>Asparagus</i> sp.].
upper embankment/ rock outcrops adj. to bdy. Knight Place [private right-of way]	remnant community		Ac [1] Ac [1] Cgu [1] Ac/ Esi Al/ Er	?100-150+ ?60-80+ 60-80+ <5 <5	12m 5m 9m up to 1m up to 1m	16m 6m 6m varies varies	good poor good good/ regen. good/ regen.	varies: 2-5	high-low			significant remnant native tree group/ community assoc.w.scarp [contiguous w. listing- No.6 The Bulwark]; Ac [1]- v.old growth/ multi-trunk spec./ some dead wood; Ac [1]/ poor- ext. dead wood/ new epicormic growth; dead/ cut stumps [incl. Bs X1/ old growth]; remnant natives [<i>Platysace linearifolia</i> , <i>Acacia suaveolens</i> , <i>Lepidosperma</i> , <i>Dodonaea</i> , <i>Actinotus</i> , <i>Xanthosia</i> , <i>Crocea</i> , <i>Opercularia</i> , <i>Pteridium</i> spp.]; good natural regen./ would respond to regen. strategy; some weeds [incl. <i>Lantana</i> , <i>Senna</i> , <i>Asparagus</i> spp.].
For Ac [1] listing on lower bdy. to No.6 The Bulwark & private right-of-way - see following listing.												
6 The Bulwark: north garden/ lower embankment adj. to No.2A & private right-of-way to Nos. 8A-8C The Bulwark.	s/s outcrops s/s scarp tree group remnant	10ag(i)	Ac [1]	60-80+	9m	9m	good	5	low	fragmented	T&BPO	exotic garden; current building works/ new residence; Ac [1]- adj. to bdy. No.2A/ listing subject to bdy. survey; generic native planting [incl. Es X2].
upper embankment/ scarp adj. to bdy. Knight Place	community		Esi [1] Ac [1]	80-100+ 80-100+	12m 12m	12m 9m	v.poor good	varies: 2-5	high-low			significant remnant native tree group/ community assoc.w.scarp [contiguous

[private right-of way]			Ac [1] Ac [2] Ac [1] Esi/ Ac	60-80+ 50-60+ 5-10+ <5	9m 7-9m 1m <1m	9m 7-9m 0.5m <0.5m	good lopped [1]/ good [1] lopped/ regrowth good/ regen.					w.listing- No.2A The Bulwark]; Esi [1]/ v.poor- old growth/ ext. dead wood w. 90% crown die-back/ epicormic growth; Ac [1]- old growth spec.; varying level of past pruning/ lopping to tree group; remnant natives [incl. <i>Acacia linifolia</i> , <i>A. suaveolens</i> , <i>Platysace linearifolia</i> , <i>Crowea saligna</i> , <i>Xanthosia</i> , <i>Dianella</i> , <i>Opercularia</i> , <i>Stephania</i> , <i>Lomandra</i> , <i>Schoenus</i> , <i>Tetraria</i> , <i>Anisopogon</i> , <i>Austrodanthonia</i> , <i>Pteridium</i> spp.]; good natural regen./ would respond to regen. strategy; varying level of weeds [<i>Ochna</i> , <i>Asparagus</i> , <i>Ehrharta</i> spp.].
8 The Bulwark: rear garden/ lower scarp [lower bdy.] adj. to private right-of-way & cul-de-sac [opp. Nos. 41-43 The Scarp]	s/s scarp s/s outcrops tree group remnant community	10ag(i)	Ceg [2] Er [5+] Cal [1] Lep Ac [1] Cal/ Er	?50-60+ up to 10-15+ ?50-60+ up to 10-15+ <5 <5	4-5m up to 3m 3m up to 4m 2.5m <1m	2-3m varies 3m up to 4m 2m <0.5m	good good lopped/ regrowth good good/ regen. good/ regen.	varies: 3-5	medium-low	restricted	T&BPO	exotic garden; no access; significant s/s scarp, rock formations & overhang; significant remnant native community; Ceg [2]/ Cal [1]- multi-stem regrowth/ possibly older; natives [incl. <i>Grevillea</i> <i>linearifolia</i> , <i>Lasiopetalum ferrugineum</i> , <i>Acacia linifolia</i> , <i>Xanthorrhoea arborea</i> , <i>Todea barbara</i> , <i>Gleichenia</i> , <i>Hypolepis</i> , <i>Calochlaena</i> , <i>Lomandra</i> , <i>Dianella</i> , <i>Smilax</i> spp.]; Pu regrowth; would respond to regen. strategy; gen. native planting [incl. <i>Callistemon</i> sp.]; dom. exotics/ weeds [incl. <i>Ficus pumila</i> , <i>Cinnamomum</i> , <i>Hedychium</i> spp.].
8A The Bulwark: northern embankment/ rock outcrops between private right-of-ways [adj. to.Nos.6 & 10A The Bulwark]	s/s outcrops tree group remnant community	10ag(i)	Ac [2] Cgu [1] Cgu [1] Ceg [1] Er [1] Bs [2]	20-30+ 20-30+ 15-20+ 15-20+ 5-10+ 5-10+	5-6m 5m 5m 3m 2m 1.5-3m	3m 2m 2m 2m 2m 1.5m	good good fair good good good [1]/ fair [1]	varies: 3-5	medium-low	restricted	T&BPO	embankment/ significant s/s outcrops; significant remnant native tree group/ community w. old growth cut stumps/ [possibly Epip X2]; Cgu [1]/ fair- dead wood in crown; Ceg [1]- multi-stem regrowth; natives [<i>Lomandra glauca</i> , <i>L. longifolia</i> , <i>Wahlenbergia</i> , <i>Pteridium</i> , <i>Acacia</i> , <i>Entolasia</i> , <i>Dianella</i> , <i>Smilax</i> spp.]; varying level of weeds [incl. <i>Ageratina</i> , <i>Acetosa</i> , <i>Asparagus</i> , <i>Ehrharta</i> spp.]; would respond to bush regen. strategy; no access.
embankment/ rock outcrops adj. to cul-de-sac/ right-of-way			Esi [1] Esi [1]	60-80+ 40-50+	9m 7m	9m 6m	good good	varies: 4-5	low			cut stumps [7+]/ herbicidal treatment [incl. Esi/ Cgu- varying age structure];

to Nos.8 & 10 The Bulwark			Er [1]	15-20+	4m	2m	good					remnant natives [incl. <i>Histiopteris</i> , <i>Dichelachne</i> spp.]; Pu regrowth; mixed exotics, local & generic native planting/ mulched beds; weeds.
lower northern garden/ adj. to private right-of-way to No.8 The Bulwark			Esi [1] Esi [2] Er [3]	15-20+ 10-15+ 10-15+	7m 6m 4m	5m 4-5m 2m	good good good	5				significant s/s outcrops; highly modified exotic garden/ mulched slope; Esi [1]- some dead wood/ epicormic growth; Pu regrowth; no access onto property.
												Survey Date: 8 Apr-12 Apr 2013
8C The Bulwark: rear garden/ lower steep slope adj. to bdy. bushland reserve [Castlehaven Reserve & Extension]	single tree	10ag(i)	Ac [1]	60-80+	18m	5m	see notes	5	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	steep slope/ terraced exotic garden; Ac [1]- ext. damage to trunk/ branches vigorous new growth; recent clearing/ herbicidal treatment; dom. weeds [incl. <i>Senna</i> , <i>Rumex</i> , <i>Tradescantia</i> spp.]; no access; adjoins Area C(iv) [see listing in <i>The Scarp - Public Reserves</i>].
												Survey Date: 12 Dec-16 Dec 2011
10 The Bulwark: rear garden/ lower scarp [lower bdy.] adj. to private right-of-way	s/s scarp s/s outcrops tree group remnant community	10ag(i)	Cal [4] Er	unknown <5	up to 3-4m <1.5m	varies <0.5m	lopped good	varies: 4-5 [mainly 5]	low	contiguous	T&BPO	exotic garden; no access; significant s/s scarp & rock outcrops; no remnant native canopy/ highly modified; Cal [4]- all heavily lopped/ multi-stem regrowth; history of clearing/ herbicidal damage; remnant native ferns [<i>Todea barbara</i> , <i>Gleichenia</i> , <i>Calochlaena</i> spp.]; Pu regrowth; <i>Cyathea</i> sp./cultivated origin; dom. exotics/ weed thicket [<i>Ligustrum</i> , <i>Cortaderia</i> , <i>Cotoneaster</i> , <i>Pyracantha</i> , <i>Senna</i> , <i>Olea</i> , <i>Hedera</i> , <i>Nephrolepis</i> spp.]; subject to bdy. survey.
10A The Bulwark: upper/ southern garden adj. to bdy. private right-of-way to No.10	single tree s/s outcrops	10ag(i)	Cgu [1]	80-100+	12m	9m	good	5	low	restricted	T&BPO	exotic garden; no access; Cgu [1]- old growth multi-trunk spec./ some dead wood; generic native planting.
10B The Bulwark: rear garden/ lower scarp [lower bdy.] adj. to private right-of-way	s/s scarp s/s outcrops tree group remnant community	10ag(i)	Ac [1] Er [1] Er [1] Cal [1]	20-30+ 15-20+ 15-20+ <5	10m 4m 0.5m 1.5m	5m 3m 0.5m 0.5m	good good lopped good/ regen.	varies: 4-5 [mainly 5]	low	contiguous	T&BPO	exotic garden; no access; significant s/s scarp, rock outcrops & overhang; subject to bdy. survey; remnant native understorey [<i>Podocarpus spinulosus</i> , <i>Gleichenia</i> , <i>Hypolepis</i> , <i>Pteridium</i> , <i>Lomandra</i> , <i>Smilax</i> spp.]; Pu regrowth; dom. weeds [incl. <i>Ligustrum</i> , <i>Senna</i> , <i>Parietaria</i> , <i>Nephrolepis</i> , <i>Hedera</i> spp.].
10C The Bulwark: rear garden/ rock outcrops [lower bdy.]	s/s scarp s/s outcrops	10ag(i)						varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; no access; significant s/s scarp & rock outcrops; subject to

adj. to No.36 The Scarp & private right-of-way												boundary survey; no remnant native canopy; natives [<i>Lomandra</i> , <i>Pteris</i> , <i>Adiantum</i> spp.]; gen. native planting [incl. <i>Syzygium</i> spp.]; weeds.
For Epip [1] & Cgu [1] listings- lower scarp refer to The Scarp - Residential Properties: 36 The Scarp.												
12 The Bulwark: rear garden/ upper terrace & rock outcrops [lower level adj. to rear bdy.]	s/s scarp s/s outcrops single tree	10ag(i)	Er [1] Fru [1] Ac [1]	20-30+ 5-10+ <5	4m 1.5m 2m	2m 1.5m 1m	lopped good good/ regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic terraced garden; significant s/s scarp & rock outcrops; Er [1]- multi-stemmed regrowth/ lopped; natives [incl. <i>Lomandra</i> , <i>Calochlaena</i> spp.]; Pu regrowth; generic native planting; dom. weeds [<i>Ligustrum</i> , <i>Olea</i> , <i>Senna</i> , <i>Cinnamomum</i> , <i>Asparagus</i> , <i>Ipomoea</i> , <i>Nephrolepis</i> spp.].
14 The Bulwark: rear garden/ upper level adj. to house	s/s outcrops tree group	10ag(i)	Ac [1] Ac [1]	80-100+ unknown	14m 4m	15m 3m	good good	5	low	fragmented	T&BPO	exotic terraced garden; significant s/s outcrops; significant remnant native tree group Ac [1]- old growth spec./ adj. to house; Ac [1]- unknown age/ regrowth off old cut stump; gen. & local native planting (unknown provenance) [Eha, Bs, Ceg/ all likely planted].
mid-level/ terraces & rock outcrops			Cgu [1] Eha [1]/Bs [1] Ceg [1]	60-80+ 5-10+ 5-10+	14m up to 1.5m up to 1.5m	7m varies varies	good good good					
lower level/ adj. to rear bdy.			Ac [1] Er [1] Er [1]	?100-150+ 20-30+ 5-10+	15m 5m 3m	18m 2m 2m	good see notes good/ regen.					
16 The Bulwark: rear garden/ lower scarp adj. to pool & rear bdy. No.32 The Scarp	s/s scarp s/s outcrops single tree	10ag(i)	Ac [1] Gf [1]	60-80+ <5	12m 1m	15m 0.5m	good good/ regen.	5	low	fragmented	T&BPO	exotic terraced garden; significant s/s scarp & rock outcrops; Ac [1]- on s/s outcrop/ possibly old growth; generic native planting [<i>Corymbia citriodora</i> , <i>Acacia elata</i> , <i>Leptospermum</i> spp.]; dom.weeds [<i>Nephrolepis</i> , <i>Asparagus</i> , <i>Senna</i> , <i>Anredera</i> , <i>Ipomoea</i> spp.].
18 The Bulwark: rear garden/ upper lawn level adj. to easement	single tree	10ag(i)	Ac [1]	20-30+	9m	8m	good	5	low	restricted	T&BPO	exotic garden; no access; subject to bdy. survey; dom. weeds [<i>Ipomoea</i> , <i>Anredera</i> spp.].
												Survey Date: 5 Dec-9 Dec 2011
22 The Bulwark: front garden/ upper level adj. to bdy. No.18	tree group s/s scarp	10ag(i)	Ceg [1]	30-40+	8m	2m	good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	terraced exotic garden; significant s/s scarp/ rock outcrops & overhang; native ferns [incl. <i>Todea barbara</i>]; generic native planting [incl. <i>Acmena</i> sp.]; <i>Cyathea</i> sp./ cultivated origin;
rear garden/ steep gully lower terraces	s/s outcrops		Ac [1] Ac [1]	30-40+ 30-40+	16m 16m	8m 10m	good good					

												Pu regrowth; dom. weeds [<i>Lantana</i> , <i>Nephrolepis</i> , <i>Anredera</i> spp.].
26 The Bulwark: front garden [shown as 24 The Bulwark WCC Map 82/ 2003]	s/s outcrops	10ag(i)						varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; no access; <i>Calochlaena</i> sp./assoc.w. rock outcrops; Ac [1]- on upper scarp/ adj.to No.28 The Bulwark significant s/s scarp & rock outcrops; Ac [1]- outstanding v. old growth multi-trunk spec./ approx.1000mm DBH/ fluted base; natives [incl. <i>Calochlaena</i> (dom.), <i>Acacia terminalis</i>]; weeds [<i>Lonicera</i> , <i>Watsonia</i> , <i>Nephrolepis</i> , <i>Ageratina</i> spp.]; subject to bdy.survey. Brush Turkey [<i>Alectura lathamii</i>] - sighting in this & neighbouring gardens.
rear garden/ upper scarp	s/s scarp		Ac [1]	20-30+	12m	7m	good			fragmented		
lower scarp level	tree group		Ac [1] Ceg [1]	?100-150+ 5-10+	18m 3m	22m 1m	good good					
For Fru [1] listing on rock outcrops/ bdy. No.30 The Scarp refer to The Scarp - Residential Properties.												
28 The Bulwark: rear garden/ rock outcrops below pool deck	two trees s/s outcrops	10ag(i)	Ac [1] Ac [1]	80-100+ 80-100+	10m 10m	15m 16m	good good	5	low	fragmented	T&BPO	exotic garden; significant s/s outcrops; Ac X2- old growth sculptural specs./on rock outcrops/ cut-out sections in pool deck over; natives [<i>Gleichenia</i> sp.]; weeds [<i>Ligustrum</i> , <i>Nephrolepis</i> spp.].
For even numbers 32-50 The Bulwark refer to listings following 53 The Bulwark.												
Survey Date: 1 Nov-5 Nov 2010												
3 The Bulwark: front garden	s/s outcrops remnant community	10ag(i)	Cal [1]	unknown	1m	0.5m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s outcrops; natives [incl. <i>Callicoma</i> , <i>Homalanthus</i> , <i>Gleichenia</i> spp.]; <i>Cyathea</i> sp.- cultivated origin; dom. exotics/ weeds [<i>Cinnamomum</i> , <i>Hedychium</i> spp.].
7 The Bulwark: rear garden/ lawn area	two trees	10ag(i)	Ac [1] Ac [1]	?60-80+ 20-30+	7m 6m	12m 5m	good fair	5	low	restricted	T&BPO	exotic garden; Ac [1]/good- multi-trunk [2] specimen; Ac [1]/ fair- dead wood; Ac X2- possibly single old growth spec. on shallow rock substrate; gen. native planting; no access.
9 The Bulwark: rear garden/ adj. to pool [below scarp/ easement]	single tree	10ag(i)	Ac [1]	60-80+	8m	12m	good	5	low	restricted	T&BPO	exotic garden; Ac [1]- some dead wood in crown; no access.
15 The Bulwark: rear garden/ upper level [below scarp/ easement]	tree group s/s outcrops	10ag(i)	Ac [1] Ac [1] Ceg [1]	50-60+ 30-40+ 20-30+	10m 9m 3m	8m 8m 2m	fair good fair	5	low	restricted	T&BPO	terraced exotic garden; Ac [1]/fair- ext. dead wood/ vigorous new epicormic growth; Ceg [1]- dead wood/ possibly planted; Pu regrowth; no access.
21 The Bulwark: front garden	tree group	10ag(i)	Er [1]	15-20+	3m	2m	good	5	low	restricted	T&BPO	exotic garden/ lawn; no access.
rear garden	s/s outcrops s/s scarp		Ac [1] Ceg [1]	60-80+ 60-80+	10m 5m	8m 5m	fair good					significant s/s scarp & rock outcrops [rear bdy./ easement]; Ac [1]- ext. dead wood/ die-back (30%)/ vigorous

												epicormic growth: Pu regrowth.
23 The Bulwark: front garden/ lower level on front bdy. to public verge/ rock outcrops	two trees s/s outcrops s/s scarp	10ag(i)	Epip [1]	?100-150+	14m	15m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	terraced exotic garden; significant rock outcrops; Epip [1]- v.old growth spec./ 1200mm DBH/ some dead wood & pruning; native g/covers [<i>Dianella</i> sp.].
rear garden/ upper level			Ac [1]	60-80+	12m	14m	good	5				significant s/s scarp & rock outcrops [rear bdy./ easement]; Ac [1]- top of old retaining wall; dom. weeds [incl. <i>Ligustrum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.]; no access.
27 The Bulwark: rear garden/ adj. to bdy. No.29 The Bulwark	single tree s/s outcrops	10ag(i)	Era [1]	80-100+	9m	15m	fair	varies: 4-5 [mainly 5]	low	restricted	T&BPO	terraced exotic garden; significant s/s outcrops; Era [1]- old growth spec./ ext.dead wood/crown die-back (25%); remnant native ferns [<i>Calochlaena</i> sp.] Bint X1- cultivated; dom. weeds [incl. <i>Olea</i> , <i>Lantana</i> , <i>Cardiospermum</i> , <i>Acetosa</i> , <i>Lonicera</i> spp.]; no access.
												Survey Date: 1 Nov-5 Nov 2010
31 The Bulwark: front garden/ adj. to new driveway	tree group s/s scarp s/s outcrops	10ag(i)	Ac [1] Era [1]	80-100+ 20-30+	10m 9m	14m 8m	good fair	5	low	restricted	T&BPO	current building site; exotic garden; Ac [1]- old growth spec.; Era [1]- ext. dead wood/ possibly planted; generic native planting [<i>Corymbia citriodora</i>];
rear garden/ mid-scarp adj. to steps/ pedestrian right-of-way			Ac [1]	60-80+	9m	10m	good					significant s/s scarp & rock outcrops; Ac [1]- adj. to bdy.; weeds.
upper rear bdy. [below scarp]			Ac [1]	50-60+	10m	12m	good					Ac [1]- adj. to easement below scarp.
33 The Bulwark: front garden/ upper driveway [below house] scarp & rock outcrops	tree group s/s scarp s/s outcrops	10ar(i)/ 10ag(i)	Cal [1]	?50-60+	4m	5m	fair	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s scarp & rock outcrops; highly modified; dom. weeds; Cal [1]- multi-stemmed spec.; natives [<i>Acacia</i> <i>linifolia</i> , <i>Todea barbara</i> (old specs.)]; Pu regrowth; unidentified <i>Eucalyptus</i> sp./ likely planted- ext. die-back (90%); <i>Cyathea</i> sp.- likely cultivated origin.
lower east slope adj. to driveway & pedestrian right- of-way [The Bulwark frontage]			Bs [1] Bs [1] Gf [1]	10-15+ 15-20+ 5-10+	5m 7m 3m	3m 3m 3m	good fair regrowth					Bs X2- possibly planted/ remove <i>Hedera</i> sp. on trunk; native planting [<i>Melaleuca</i> sp.]; dom. weeds [incl. <i>Phyllostachys</i> , <i>Nephrolepis</i> spp.].
35 The Bulwark: front garden/ lower east slope [The Bulwark frontage]	tree group s/s outcrops	10ar(i)/ 10ag(i)	Epip [1] Ap [1] Bint [2]	60-80+ 10-15+ 10-15+	9m 7m 4-6m	7m 6m 3-4m	good/ lopped good good	5	low	restricted	T&BPO	exotic terraced garden; listings subject to bdy.survey; Epip [1]- some pruning; Bint [2]- likely cultivated origin; natives [<i>Acacia parramattensis</i> , <i>Adiantum</i> , <i>Doodia</i> spp.]; highly modified; generic native planting [incl. <i>Euc. ficifolia</i> ,

												<i>Brachychiton</i> sp.]; dom.exotics/ weeds [<i>Cotoneaster</i> , <i>Ligustrum</i> , <i>Lonicera</i> , <i>Salix</i> , <i>Nephrolepis</i> spp.]; no access.
37 The Bulwark: front garden/ scarp & rock outcrops	single tree s/s scarp s/s outcrops	10ar(i)/ 10ag(i)	Ac [1]	?80-100+	9m	15m	good	5	low	restricted	T&BPO	significant s/s scarp & rock outcrops; Ac [1]- on upper scarp adj. to bdy. No.39 The Bulwark; exotic garden/ weed thicket [<i>Phyllostachys</i> , <i>Lantana</i> , <i>Robinia</i> , <i>Nephrolepis</i> spp.]; <i>Cyathea</i> sp.-cultivated origin; no native canopy/ native ferns likely assoc. w. scarp; subject to bdy. survey; no access
39 The Bulwark: front garden/ scarp & rock outcrops	s/s scarp s/s outcrops	10ar(i)/ 10ag(i)						5	low	restricted	T&BPO	significant s/s scarp & rock outcrops; exotic garden/ weed thicket [incl. <i>Erythrina</i> , <i>Phyllostachys</i> , <i>Lantana</i> , <i>Robinia</i> , <i>Nephrolepis</i> spp.]; <i>Cyathea</i> sp.-cultivated origin; no remnant native canopy/ highly modified; native ferns likely assoc. w. scarp; subject to bdy. survey; access denied by owner.
41 The Bulwark: front garden/ upper scarp [house] level adj. to Tower Reserve	s/s outcrops s/s scarp tree group	10ar(i)/ 10ag(i)	Epip [1]	80-100+	6m	10m	good/ lopped	5	low	restricted	adj.SEPP 19 /T&BPO	exotic garden; significant s/s scarp & rock outcrops; Epip [1]- old growth multi-trunk spec./ adj. to bdy. No.39/ lopped under o'head power-lines/ remove <i>Hedera</i> sp. on base; subject to bdy. survey/ easement; no access.
rear garden/ upper slope [below scarp] & adj. to rear bdy. Nos.45-49 The Bulwark			Epip [1] Ebo [1] Ac [1] Ac [1] Cgu [1] Fru [1] Pu [dom.]	80-100+ ?100-150+ 40-50+ 40-50+ 40-50+ 10-15+ up to 40-50+	10m 8m 12m 12m 5m 2m 6-7m	15m 8m 8m 5m 2m 4m varies	fair v.poor good poor v.poor good regrowth	varies: 4-5 [mainly 5]		fragmented		significant remnant native tree group on steep slope/ old terraced garden; mown grass; highly modified; Epip [1]- old growth multi-trunk [2] specimen/ 1200mm DBH/ some dead wood; Ebo [1]/ v.poor- old regrowth off large stump/ ext. dead wood, decline & lopping (70%); Ac [1]/ poor- ext. dead wood/ die-back (70%)/ vigorous new epicormic growth; Cgu [1]/ v.poor- ext. crown die-back (90%)/ new growth; Fru [1]- on scarp face; some remnant native g/covers [<i>Hypolepis</i> , <i>Dianella</i> spp.]; generic native planting; dom. weeds [incl. <i>Cinnamomum</i> , <i>Acetosa</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Lonicera</i> , <i>Setaria</i> spp.].

[illegible]

32 The Bulwark: rear garden/ lower terraced slope	s/s outcrops tree group	10ag(i)	Ac [1] Ac [1] Er [1]	60-80+ 60-80+ ?20-30+	18m 18m 1m	16m 15m 0.5m	see notes good lopped/ regrowth	5	low	fragmented	T&BPO	exotic terraced garden; significant s/s outcrops; Ac [1]/ see notes- on bdy. No.26 The Scarp/ large cavity & some dead wood; Pu regrowth; dom. weeds [incl. <i>Cinnamomum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Lonicera</i> spp.].
Note: For adjoining public verge listing [The Scarp frontage] refer to The Scarp - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
34 The Bulwark: rear garden/ upper terrace adj. to house	s/s outcrops tree group	10ag(i)	Ac [1]	80-100+	20m	22m	good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic terraced garden; significant s/s outcrops; Ac X2- outstanding old growth specs./ 700-800mm DBH; remnnant native understorey [incl. <i>Leptospermum trinervium</i> , <i>Lambertia formosa</i> , <i>Podocarpus spinulosus</i> , <i>Acacia linifolia</i> , <i>A. terminalis</i> , <i>Dianella</i> , <i>Smilax</i> , <i>Lomandra</i> spp.]; no access; listings subject to boundary survey.
lower slope adj. to bdy. The Scarp frontage/ verge			Ac [1] Cgu [1]	80-100+ 10-15+	20m 5m	22m 4m	good good					
Note: For adjoining public verge listing [The Scarp frontage] refer to The Scarp - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
34A The Bulwark [16 The Scarp]: front garden/ upper level rock outcrops adj. to driveway	s/s outcrops tree group	10ag(i)/	Ac [1] Epip [1] Epip [1] Epip [1]	60-80+ ?50-60+ ?20-30+ ?30-40+	9m 6m 3m 6m	10m 9m 2m 5m	good good poor/ lopped good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s outcrops; Epip X3-possibly single multi-stemmed [3] old growth spec./ lignotuber growth; native ferns [<i>Calochlaena</i> sp.]; generic native planting [Bint].
rear garden/ steep upper slope to lower bdy. [verge] [The Scarp frontage]			Ac [1] Bs [1] Epip [1] Ac [1] Epip [1] Ac [1] Cgu [1] Ac [1] Gf	60-80+ 30-40+ 60-80+ 20-30+ 80-100+ 60-80+ 15-20+ 40-50+ <5	14m 6m 8m 9m 12m 9m 8m 8m <1m	7m 4m 10m 3m 15m 10m 3m 6m <1m	good/ pruned good good good good good good good good/ regen.			fragmented		significant remnant native tree group on mulched terraced slope; Ac [1]/pruned & Bs [1]- upper terrace adj. to house; Epip [1]- on bdy. No.18 The Scarp/ adj. to pool; Ac [1]- on lower bdy. No. 18/ competition w. <i>Liquidambar</i> sp.; Epip [1]- multi-stemmed [2] old growth spec./ some cavities; Ac [1]- adj. to bdy. No.14; highly modified under- storey & ground layer; remnant natives [incl. <i>Davallia</i> , <i>Calochlaena</i> , <i>Dianella</i> spp.]; min. natural regen./ extensive use of herbicide; gen. native planting [incl. <i>Corymbia</i> sp.]; exotics/ weeds [<i>Setaria</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.]
36 The Bulwark: rear garden/ lower level adj. to verge/ roadway [The Scarp frontage]	single tree	10ag(i)	Fru [1]	50-60+	8m	12m	good	5	low	restricted	T&BPO	exotic garden; significant s/s scarp & rock outcrops; listing subject to bdy. survey; gen. native planting [incl. <i>Euc. globulus</i>]; dom. weeds [<i>Anredera</i> , <i>Cardiospermum</i> , <i>Nephrolepis</i> spp.].
												Survey Date: 1 Aug-5 Aug 2011
38 The Bulwark: rear garden/	single tree	10ag(i)	Ac [1]	20-30+	10m	9m	good	5	low	restricted	T&BPO	exotic garden; Ac [1]- possibly planted;

upper level adj. to bdy. No.40 The Bulwark												gen. native planting [<i>Euc. globulus</i>]; no access.
40 The Bulwark: front garden	two trees	10ag(i)	Ac [1] Er [1]	40-50+ <5	9m 1.5m	9m 1m	see notes good	5	low	restricted	T&BPO	exotic/ native garden; Ac [1]- ext. basal damage & dead wood/ vigorous epicormic growth.
44 The Bulwark: front garden/ adj. to driveway	two trees	10ag(i)	Ac [1] Gf [1]	40-50+ 5-10+	10m 3m	12m 1m	good good/ regrowth	5	low	restricted	T&BPO	exotic garden; Ac [1]- some pruning; Pu regrowth; gen./ local native planting [<i>Euc. grandis</i> (incl. saplings/ regen.), <i>E. haemastoma</i> , <i>Corymbia</i> spp.]; weeds [incl. <i>Ligustrum</i> , <i>Lantana</i> , <i>Asparagus</i> spp.]; no access.
48 The Bulwark: front garden/ upper level adj. to driveway	tree group remnant community s/s outcrops s/s scarp	10ag(i)/	Ac [2] Ac [1] Al [1] Ceg [2]/Er [1] Ac/ Al/ Ka	80-100+ 20-30+ 20-30+ 15-20+ up to 5-10+	9-10m 10m 7m 3-6m up to 2-5m	15-16m 6m 4m 2-3m varies	good good good good good/ regen.	varies: 3-5	medium-low	fragmented	T&BPO	significant remnant native tree group/ Ac (dom.) community; fragmented/ modified; Ac [2]- old growth specs.; native understorey [<i>Calochlaena</i> sp.];
south-western lower slope & gully adj. to bdy. No.50			Ac [1] Cgu [1] Al/ Cal Ka/ Er Pu [dom.]	40-50+ 20-30+ up to 20-30+ up to 5-10+ up to 30-40+	12m 7m up to 5-7m up to 3-4m up to 5-6m	8m 3m varies 1-2m varies	good good good good good/ regrowth	varies: 4-5	low			Ac [1]/ some pruning under o'head powerlines; native ferns [<i>Calochlaena</i> sp.]; gen./ native planting [incl. <i>Cissus</i> <i>antarctica</i> , <i>Brachychiton</i> , <i>Syzygium</i> , <i>Toona</i> , <i>Doryanthes</i> spp.]; <i>Cyathea</i> sp. cultivated origin; dom. weeds [incl. <i>Hedychium</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Pavonia</i> spp.].
rear garden/ rock shelf [upper scarp]		10ar(i)	Ple [1] Ka [2] Be [1] Al [dom.] Er [1]	?80-100+ up to 40-50+ 20-30+ up to 10-15+ 20-30+	4m 3m 3m up to 3-4m 4m	4m 4-5m 4m varies 3m	fair good/ fair good good good	varies: 3-5	medium-low			significant rock shelf/ outcrops & scarp; Ple [1]/ <i>Persoonia levis</i> - old growth spec./ some deadwood; Ka [2]- old specs./ other remnant natives [incl. <i>Callistemon linearis</i> , <i>Cassinia aculeata</i> <i>Grevillea linearifolia</i> , <i>Dillwynia retorta</i> , <i>Isopogon anethifolius</i> , <i>Actinotus</i> <i>helianthi</i> , <i>Lomandra</i> spp.]; mixed gen. native planting [incl. <i>Bint</i> , <i>Melaleuca</i> <i>hypericifolia</i> , <i>Callistemon</i> , <i>Eriostemon</i> , <i>Leptospermum</i> , <i>Hovea</i> , <i>Correa</i> spp.]; exotics/ weeds [as above].
lower scarp/ rock outcrops [adj. to bdy. No.50 The Bulwark]			Ceg [3]	up to 30-40+	4-5m	3-4m	good					Ceg [3]/ group- possibly older/ other remnant natives [incl. <i>Todea barbara</i> , <i>Histiopteris</i> , <i>Calochlaena</i> , <i>Adiantum</i> , <i>Xanthosia</i> , <i>Lastreopsis</i> spp.]; <i>Cyathea</i> sp./ cult. origin; weeds [as above].
50 The Bulwark: upper [west]	s/s outcrops	10ag(i)	Ac [1]	20-30+	8m	5m	good	varies: 4-5	low	fragmented	T&BPO	exotic garden/ recent building works &

garden [The Bulwark frontage]	tree group remnant		Ac [1] Cal [1]	20-30+ ?10-15+	0.5m 1m		0.5m	lopped lopped	[mainly 5]				landscaping; owner confirmed survey bdy.; Ac [1]/ lopped- adj. to house.
upper north-east garden/ rock outcrops	community		Al [1] Er [2] Al [1]	30-40+ 5-10+ 5-10+	7m 2-3m 4m		5m 1.5m 1m	good good good	varies: 3-5 [mainly 5]	medium-low			remnant natives [incl. <i>Calochlaena</i> , <i>Lomandra</i> spp.]; gen. native planting [incl. <i>Casuarina</i> , <i>Melaleuca</i> , <i>Acacia</i> , <i>Leptospermum</i> , <i>Stenocarpus</i> spp.]; <i>Cyathea</i> sp./cult. origin; some weeds.
For bushland reserve adjoining this property [cnr. The Bulwark/ The Scarp] refer to The Bulwark - Road Reserves, Drainage Easements & Public Pedestrian Linkages.													
For even numbers 54-80 The Bulwark refer to listings following 79 The Bulwark.													
55 The Bulwark: front garden	s/s outcrops single tree remnant community	10ag(i)	Bs [1]	30-40+	4m		3m	fair	5	low	restricted	T&BPO	terraced garden; mixed generic/ local native planting [<i>Euc. grandis</i> (mature), <i>Ceg/ Cal</i> , <i>Phebalium squamulosum</i>]; Bs [1]- possibly planted.
57 The Bulwark: front garden/ rock outcrops & scarp	s/s outcrops s/s scarp tree group	10ag(i)/ 10ar(i)	Ac [1] Ac [1] Er [1]	60-80+ 40-50+ 20-30+	8m 8m 1m		9m 8m 1m	good good lopped/ regrowth	5	low	restricted	T&BPO	exotic terraced garden; significant s/s outcrops & scarp; Inter-war period house (cultural heritage); Ac X2- some dead wood; Pu regrowth; dom.weeds [incl. <i>Ligustrum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> spp.].
59 The Bulwark: front garden/ rock outcrops/ roadway cutting	s/s outcrops s/s scarp	10ag(i)/	Er [1] Ac/ Fru	10-15+ <5	4m <1m		2m <0.5m	good regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s outcrops & scarp; good native regen. [Ac/ Fru, <i>Lomandra</i> sp.]; Ac [1]- old growth spec./ adj. to house; Ac [1]/ younger- dead wood/ vigorous new growth; Ceg [3]- old growth group/ possibly single specimen; Pu regrowth; <i>Acacia</i> <i>decurrens</i> [4m HT]- cultivated origin; dom.weeds [incl. <i>Cinnamomum</i> , <i>Olea</i> , <i>Cotoneaster</i> , <i>Ligustrum</i> , <i>Acetosa</i> , <i>Asparagus</i> , <i>Setaria</i> spp.].
upper scarp/ rock outcrops & upper terrace level	tree group remnant community	10ar(i)	Ac [1] Ac [1] Ceg [3]	80-100+ 40-50+ 80-100+	8m 7m 2.5m		15m 5m 5m [group]	good good good	5				
61 The Bulwark: front garden/ rock outcrops adj. to driveway	s/s outcrops s/s scarp s/s cutting single tree remnant	10ag(i)/ 10ar(i)	Gf [1] Ka	50-60+ <5	5m <0.5m		7m <0.5m	good regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s outcrops & scarp/ cutting; Gf [1]-on upper scarp; remnant natives/ good regen. [incl. <i>Kunzea</i> , <i>Gleichenia</i> , <i>Calochlaena</i> , <i>Wahlenbergia</i> spp.]; Pu regrowth.
rear garden/ upper level	community		Er/ Ceg	<5	up to 1.5m		varies	good	5				garden; local native planting (unknown provenance)/ [incl. <i>Er/ Ceg</i> , <i>Banksia</i> <i>spinulosa</i> , <i>Xanthorrhoea</i> spp.].
63 The Bulwark: front garden/ rock outcrops/ cutting adj. to driveway & roadway	s/s outcrops s/s cutting remnant community	10ag(i)/ 10ar(i)							varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s outcrops & cutting; remnant natives/ good regen. [incl. <i>Todea</i> , <i>Gleichenia</i> , <i>Calochlaena</i> , <i>Histiopteris</i> , <i>Blechnum</i> , <i>Adiantum</i> , <i>Wahlenbergia</i> spp.]; no native canopy;

												generic native planting; weeds.
65 The Bulwark: front garden/ rock outcrops/ cutting adj. to driveway & roadway	s/s outcrops tree group remnant community	10ag(i)/	Ceg [8+] Er [1]	unknown 5-10+	2-3m 3m	4m [group] 2m	good good	varies: 3-5 [mainly 5]	medium-low	restricted	T&BPO	exotic terraced garden; significant s/s outcrops; Ceg [8+]- possibly single specimen/ multi-stemmed regrowth; natives [incl. <i>Calochlaena</i> sp.]; gen. native planting [<i>Cyathea</i> / <i>Thelychiton</i> syn. <i>Dendrobium</i> spp.]-cultivated origin.
rear garden/ upper level adj. to bushland reserve [Oriol Reserve]		10ar(i)	Cgu [2] Cgu [1] Al [5]	?60-80+ 40-50+ 10-15+	6-8m 9m 4-5m	5-8m 5m 4-5m	good/ fair fair good	varies: 4-5 [mainly 5]	low			Cgu [2]- possibly old growth multi- trunked (2) specimen; Cgu X2/ fair- ext. dead wood; native g/covers [incl. <i>Dianella</i> sp.]; Al [5]- likely planted (unknown provenance).
67 The Bulwark: front garden/ rock outcrops adj. to roadway	s/s outcrops tree group remnant community	10ag(i)/ 10ar(i)	Bin/ Bs	5-10+	2.5m	varies	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic terraced garden; significant s/s outcrops; Bin [1]/ Bs [1]- likely planted; remnant natives/ good regen. [incl. <i>Leptospermum trinervium</i> , <i>Adiantum</i> , <i>Calochlaena</i> , <i>Pteris</i> spp.].
69 The Bulwark: front garden/ steep slope to roadway [south- east corner adj. to verge]	tree group remnant community	10ag(i)/	Ac [1] Er [3] Sygl [1]	80-100+ up to 20-30+ 5-10+	18m up to 2m 2.5m	18m up to 1.5m 1m	see notes lopped good	varies: 3-5 [mainly 5]	medium-low	restricted	T&BPO	exotic terraced garden; Ac [1]- old growth spec. w. some dead wood/ crown die-back (15%)/ plastic possum guard on trunk; Er [3]- lopped/ multi- stemmed regrowth; significant native remnant group [incl. <i>Lomatia silaifolia</i> , <i>Xanthorrhoea</i> , <i>Entolasia</i> , <i>Adiantum</i> spp.]; Pu regrowth; weeds [<i>Asparagus</i> sp.]; <i>Cyathea cooperi</i> -cultivated origin.
rear garden/ upper lawn		10ar(i)	Epip [1]	80-100+	7m	12m	poor	5	low			Epip [1]- old growth spec./ ext. dead wood & die-back (40%) w. epicormic regrowth.
75 The Bulwark: front garden/ steep slope/ rock outcrops	s/s outcrops tree group	10ag(i)	Pu [dom.] Er [5+] Ka [1]	up to 30-40+ up to 5-10+ 30-40+	up to 5-6m up to 4m 4m	varies up to 1-2m 4m	regrowth regrowth fair	varies: 4-5 [mainly 5]	low	restricted	T&BPO	steep slope/ exotic terraced garden; Pu [dom.] canopy/Er [5+]- mesic shift; Ka [1]/ fair- ext. dead wood; native g/covers [incl <i>Calochlaena</i> sp.]; gen. native planting [<i>Eucalyptus pilularis</i> , (mature), <i>Acacia elata</i>]; <i>Cyathea</i> / <i>Leptospermum</i> spp.- cultivated origin; weeds [<i>Asparagus</i> , <i>Nephrolepis</i> spp.].
77 The Bulwark: front garden/ steep slope/ rock outcrops & cutting to roadway	s/s outcrops s/s cutting tree group remnant community	10ag(i)/ 10ag(iii)	Pu [dom.] Ceg [1] Er [2]	up to 30-40+ 40-50+ <5	up to 5-6m 6m up to 1.5m	varies 3m up to 1m	regrowth good good/ regen.	varies: 3-5 [mainly 5]	medium-low	restricted	T&BPO	steep slope/ exotic terraced garden; Pu [dom.] canopy/regrowth; significant remnant natives/ good regen. [incl. <i>Lomandra cylindrica</i> (uncommon), <i>L. longifolia</i> , <i>Microsorium scandens</i> ,

												<i>Calochlaena, Adiantum, Histiopteris, Xanthorrhoea</i> spp.]; dom. weeds [incl. <i>Ochna, Asparagus, Nephrolepis, Tradescantia</i> spp.]; listings subject to boundary survey.
rear garden/ mid-slope adj. to bdy. No.75			Ac [1]	60-80+	9m	9m	good	5	low			Ac [1]- some dead wood; generic native planting [incl. <i>Eucalyptus</i> spp.].
79 The Bulwark: front garden/ steep slope & rock outcrops adj. to drainage reserve/ natural creek-line [part of Gargoyle Reserve]	s/s outcrops tree group	10ag(iii)	Pu [dom.]	up to 30-40+	up to 5-6m	varies	regrowth	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic terraced garden; significant s/s outcrops adj. to creek-line; native ferns [<i>Adiantum aethiopicum, A. formosum</i> spp.]; owner [since 1960] removed weed thicket [<i>Lantana</i> sp.]; owner confirmed upper rear bdy./ Ac X1 in reserve; <i>Cyathea cooperi</i> [30-50+yrs./ up to 6-8m HT]- owner confirmed all cultivated origin; minimal weeds [incl. <i>Nephrolepis, Tradescantia</i> spp.].
For Ac [1]- old growth specimen [upper rear bdy.] refer to The Battlement - Public Reserves: Gargoyle Reserve.												
												Survey Date: 25 Jul-29 Jul 2011
58 The Bulwark: rear garden/ lower steep slope to reserve [below terraces]	s/s outcrops tree group remnant community	10ag(i)/ 10ag(iii)	Ac [1] Ac [1] Ac [1] Ac [2] Gf/ Pu Sygl/ Er	?100-150+ 40-50+ 60-80+ 15-20+ up to 10-15+ up to 5-10+	18m 18m 18m 9-10m up to 3-4m up to 2-3m	20m 10m 15m 5-7m varies varies	good good good good good/ regrowth good	varies: 2-5	high-low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic terraced garden; significant rock outcrops; significant remnant Ac [dom.] group; Ac [1]- v. old growth multi-trunk specimen/1200mm DBH w.buttressed base/ some dead wood; native under-storey [<i>Grevillea linearifolia, Breynia, Homalanthus, Eustrephus, Stephania, Smilax, Lomandra, Dianella, Doodia, Hypolepis, Histiopteris</i> spp.]; <i>Cyathea</i> sp.- cultivated origin; dom. weeds [<i>Nephrolepis</i> sp.]; no access.
60 The Bulwark: front garden/ upper level	s/s outcrops	10ag(i)/						5	low	restricted	adj.SEPP 19 /T&BPO	exotic garden; Pu regrowth; gen.native planting [incl. <i>Acacia binervia</i>].
rear garden/ rock outcrops & scarp adj. to rear bdy. to reserve bdy. to reserve.	s/s scarp single tree	10ag(iii)	Fru [1]	?100-150+	22m	30m	good			fragmented	SREP 23	significant rock outcrops/scarp; Fru [1]- outstanding v. old growth multi-trunked specimen on scarp; no access.
62 The Bulwark: front garden/ upper level adj. to roadway/ embankment	s/s outcrops tree group remnant community	10ag(i)/ 10ag(iii)	Al [1] Gf [1] Pu	30-40+ 20-30+ up to 20-30+	5m 7m up to 5-6m	8m 5m varies	good good/ regrowth good/ regrowth	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic terraced garden; significant rock outcrops; Al [1]- pruned under o'head powerlines; steep slope.
rear garden/ upper terraces			Ac [3] Gf [1] Sygl [1] Cal/ Er	30-40+ 80-100+ 5-10+ <5	15-18m 9m 4m up to 2m	8-15m 12m 5m 1-2m	good good good good/ regen.	varies: 2-5	high-low	contiguous		owner confirmed rear bdy. to reserve/ Ac [3]/ group- local provenance seed/ planted by Bev Blacklock; Gf [1]- on bdy. No.64/ old growth spec.; Bs X1/ Epip X1- stags/ standing dead trees;
lower slope/ rear bdy.	core		Ac [1]	80-100+	25m	25m	good	varies: 1-2	high			

to reserve	bushland community		Ac [1] Fru [1] Sygl Cea/ Fru Pu	30-40+ 50-60+ up to 5-10+ up to 5-10+ up to 50-60+	12m 12m up to 5-6m up to 1.5m up to 9-10m	8m 16m up to 3-4m up to 2m varies	fair good good/ regen. good/ regen. good/ regrowth					Ac [1]- massive old growth spec./ 800mm DBH adj. to rear bdy.; Ac [1]/ fair- dead wood in crown; Fru [1]- sculptural spec./ adj. to bdy. No.64 & rear bdy.to reserve; native understorey [incl. <i>Grevillea linearifolia</i> , <i>Calochlaena Hypolepis</i> , <i>Eustrephus</i> , <i>Stephania</i> , <i>Dianella</i> , <i>Oplismenus</i> , <i>Smilax</i> spp.]; <i>Asplenium australasicum</i> - large spec. on rock outcrop; gen. native planting [incl. <i>Macadamia</i> sp.]; <i>Cyathea</i> sp.- cultivated origin; bush regen. strategy/ minimal weeds.
64 The Bulwark: front garden/ upper level adj. to roadway	s/s outcrops	10ag(i)/						5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	significant rock outcrops; gen. native planting [incl. <i>Allocasuarina torulosa</i> , <i>Bint</i> , <i>Austrostipa</i> spp.]; no access.
rear garden/ steep slope terraced garden	two trees remnant community	10ag(iii)	Ac [1] Cya	30-40+ 40-50+	16m 3m	12m	good good	varies: 3-5 [mainly 5]	medium-low	fragmented		Ac [1]- some dead wood; Cya [1]/ <i>Cyathea australis</i> - large spec.; native understorey [<i>Clerodendron</i> , <i>Polyscias</i> , <i>Calochlaena</i> , <i>Pteridium</i> , <i>Dianella</i> , <i>Smilax</i> spp.]; gen. natives/ cultivated origin [incl. <i>Syncarpia glomulifera</i> / <i>Cyathea cooperi</i>]; dom.weeds [incl. <i>Ligustrum</i> , <i>Tradescantia</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Acetosa</i> spp.].
66 The Bulwark: rear garden/ lower steep slope to reserve [below terraces]	tree group remnant community	10ag(iii)	Ac [1] Epip [2] Er [2]	80-100+ 40-50+ 5-15+	22m 12-16m 3-6m	30m 8-10m 2-3m	good good good	varies: 2-5	high-low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic garden; Ac [1]-old growth spec./ 800mm DBH; Epip [2]- some dead wood; native understorey [<i>Calochlaena</i> (dom.), <i>Hypolepis</i> , <i>Pteridium</i> , <i>Smilax</i> , <i>Stephania</i> spp.]; dom. weeds [incl. <i>Lantana</i> , <i>Hedychium</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.]; site would respond to bush regen. strategy; no access.
For easement between Nos. 66-68 The Bulwark refer to The Bulwark - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
												Survey Date: 1 Aug-5 Aug 2011
68 The Bulwark: front garden/ upper level/ scarp	s/s outcrops s/s scarp two trees	10ag(i)/ 10ag(iii)						varies: 3-5	medium-low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant s/s outcrops & scarp; exotic garden/ gen. native planting; remnant native ferns [incl. <i>Adiantum hispidulum</i> , <i>Blechnum cartilagineum</i> , <i>Calochlaena</i> spp.]; no remnant native canopy; Pu regrowth; <i>Cyathea</i> sp./cultivated origin.
rear garden: lower terraces			Epip [1] Er [1]	60-80+ 15-20+	14m 6m	7m 2m	fair fair	varies: 4-5 [mainly 5]	low			Epip [1]/ fair-ext. dead wood/epicormic growth; Er [1]/ fair- crown die-back;

			Gf	<5	<1m		good/ regen.					Ac X1-stag/ standing dead tree/ lopped; listings subject to boundary survey; no access.
For easement between Nos. 66-68 The Bulwark refer to The Bulwark - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
70 The Bulwark: front garden/ incl. upper western slope/ vacant block [No.72]/ upper scarp to roadway	s/s outcrops s/s scarp tree group remnant community	10ag(i)/ 10ag(iii)	Al [1] Gf [1]	10-15+ 5-10+	5m 4m	4m 3m	fair regrowth	5	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant s/s outcrops & scarp; local & generic native planting (unknown provenance) [incl. Al/ Ac, Grevillea, Acacia, Themeda spp.]; no access.
eastern deck/ terrace garden & lower east slope			Fru [1] Epip [1]	<5 80-100+	1.5m 15m	1.5m 15m	good good	varies: 3-5	medium-low	exotic/ native garden; Epip [1]- old growth spec./ some dead wood/ cut-out section in upper deck/ roof; native ferns [incl. Calochlaena, Doodia sp.].		
lower western terrace/ entry below scarp			Cea [1] Ceg [1] Ceg [1] Cal Pu [dom.] As [1]	15-20+ 80-100+ 50-60+ <5 up to 30-50+ 10-15+	7m 8m 5m up to 1.5m up to 6-8m 4m	2m 4m 3m varies varies 4m	good good good good/ regen. good/ regrowth good	varies: 2-5	high-low	highly modified/ restoration planting [Acmena sp./ possibly Cea]; Ceg [1]- old growth spec.; remnant native understorey [Notelaea, Calochlaena, Pteridium, Todea, Pteris, Doodia spp.]; Cyathea sp./cult. origin; some weeds [incl. Nephrolepis, Tradescantia spp.].		
rear garden/ lower paved terrace steep slope to rear bdy. to Retreat Reserve			Gf [2] Fru [1] Gf/ Er/ Sygl Ac/ Cal Pu [dom.]	40-50+ 15-20+ up to 15-20+ <5 up to 30-50+	7-9m 4m up to 4-6m <1.5m up to 6-8m	5-8m 6m varies <1m varies	good good good good/ regen. good/ regrowth		contiguous	Epip X1- stag/ standing dead tree; native understorey [incl. Elaeocarpus, Synoum, Callicoma, Calochlaena Dodonaea spp.]; weeds [Tradescantia sp.]; listings subject to bdy. survey.		
74 The Bulwark: front garden/ upper level/ slope [top of scarp]	s/s outcrops s/s scarp tree group remnant community	10ag(i)/ 10ag(iii)	Ac [1]	20-30+	9m	3m	fair	varies: 3-5 [mainly 5]	medium-low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant s/s outcrops & scarp; exotic/ gen. native planting [incl. Euc. globulus X2/ front & rear garden]; Pu regrowth; Ac [1]/ fair- ext. dead wood; Cal [1]- multi-stemmed/ possibly much older; native understorey [incl. Calochlaena, Pteridium, Adiantum, Lastreopsis spp.]; Cyathea sp./ cult. origin; dom. weeds [incl. Nephrolepis, Asparagus, Tradescantia spp.].
rear garden/ lower scarp adj. to rear bdy. to reserve [Retreat Reserve]			Cal [1] Ceg [1] Fru/ Gf	?30-40+ 5-10+ <5	4m 1.5m <1m	6m 1.5m <1m	good good good/ regen.					
76 The Bulwark: front garden/ upper level/ on bdy. No.78	s/s outcrops tree group remnant community	10ag(i)/ 10ag(iii)	Cal [1]	?20-30+	2m	2m	fair	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO SREP 23	significant s/s outcrops & scarp; exotic garden; Cal [1]- on bdy. No.78/ multi-stemmed spec./ lopped; native ferns [Calochlaena sp.]; Pu regrowth.
rear garden/ steep slope adj. to reserve bdy. [Retreat Reserve]			Eula [1] Cya [1] Ceg [1] Cal/ Sygl/ Er	?80-100+ 40-50+ 20-30+ up to 5-10+	7m 3m 7m up to 3-4m	6m 4m varies	good good good good	varies: 2-5	high-low	contiguous		gen. native planting [incl. Diploglottis australis, Toona australis, Melaleuca styphelioides, Syncarpia glomulifera- up to 20-30yrs.+] mixed w. remnant natives; current bush regen./restoration

												strategy; Eula [1]/ <i>Eupomatia laurina</i> - multi-stemmed [4] old growth spec./ v. rare example of taxa this size/ age structure- unlikely cultivated origin [NB. other <i>Eupomatia</i> sp. in reserve & adj. properties are much smaller/ younger and likely cultivated; Cya [1]/ <i>Cyathea australis</i> / subject to bdy. survey; native ferns [incl. <i>Sticherus flabellatus</i> (dom.), <i>Calochlaena</i> , <i>Doodia</i> spp.]; some weeds [<i>Tradescantia</i> sp.].
78 The Bulwark: front garden/ steep slope/ upper terraces	s/s outcrops s/s scarp tree group	10ag(i)/ 10ag(iii)	Cgu [1] Fru [1] Ceg [1] Cal/ Ceg/ Er	20-30+ 10-15+ 15-20+ up to 5-10+	15m 3m 4m up to 2-4m	9m 4m 2m varies	good good good good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO SREP 23	significant s/s outcrops & scarp; exotic/ generic & local native planting [incl. <i>Backhousia myrtifolia</i> , <i>Ficus coronata</i> , <i>Helmholtzia</i> , <i>Lomandra</i> , <i>Dianella</i> spp.- all cultivated]; Cal/ Ceg/ Er- possibly cultivated; remnant native ferns [incl. <i>Sticherus flabellatus</i> , <i>Hypolepis</i> , <i>Blechnum</i> , <i>Adiantum</i> , <i>Microsorium</i> , <i>Doodia</i> spp.]; weeds [<i>Tradescantia</i> sp.]; listings subject to bdy. survey.
rear garden/ lower level adj. to bdy. to reserve [Retreat Reserve]			Cal	up to 10-15+	up to 7m	up to 4m	varies					
80 The Bulwark: front garden/ rock outcrops adj. to reserve & creek-line [Retreat Reserve]	s/s outcrops tree group remnant community	10ag(iii)	Cea [1] Cea [7] Cea/ Er Tain [1] Eula [1]	?80-100+ up to 5-10+ <5 ?unknown 5-10+	8m up to 2m <2m 1.5m 1.5m	7m up to 1-2m <1m 1.5m 1.5m	good good/ regen. good/ regen. good good	varies: 3-5	medium-low	contiguous	adj.SEPP 19 /T&BPO SREP 23	exotic/ native garden; significant rock outcrops adj. to front deck; subject to bdy.survey; Cea [1]-multi-stemmed [8] old growth spec./ possibly much older; Tain [1]/ <i>Tasmannia insipida</i> - rare local example of taxa/ possibly planted; gen. native planting [<i>Cissus antarctica</i> , <i>Acacia saligna</i> (weed), <i>Brachychiton</i> , <i>Davidsonia</i> spp.]; Eula [1]/ <i>Eupomatia laurina</i> - likely cultivated ; some weeds.
rear garden/ steep lower slope & rock outcrops [adj. & under house undercroft area] adj. to reserve & creek-line			Cea [1] Cea [1] Cea [1] Cea [dom.] Pu [1] Fco	60-80+ 50-60+ 20-30+ up to 5-10+ 60-80+ up to 5-10+	14m 12m 7m up to 6m 8m up to 2-3m	7m 8m 5m varies 6m varies	good lopped good good/ regen. good/ regrowth good					

Survey Date: 20 Sep-24 Sep 2010												
81 The Bulwark: front garden/ rock outcrops adj. to drainage reserve/ natural creek-line [part of Gargoyle Reserve]	s/s outcrops tree group	10ag(iii)	Cea [1] Cea [1] Gf [1]	20-30+ 10-15+ 40-50+	7m 5m 6m	6m 2m 7m	good good good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s outcrops adj. to creek-line; remnant natives [<i>Dianella</i> sp.]; listings subject to bdy. survey; dom. exotics/ weeds [incl. <i>Hedychium</i> , <i>Olea</i> , <i>Lantana</i> , <i>Ligustrum</i> , <i>Cardiospermum</i> , <i>Nephrolepis</i> spp.].
For Gargoyle Reserve listings refer to <i>The Battlement</i> - Public Reserves: Gargoyle Reserve.												
82 The Bulwark: rear garden/ steep upper north-east slope adj. to reserve bdy./ creek-line [below deck level]	s/s outcrops s/s scarp tree group remnant community	10ag(iii)	Cea [2] Cea [dom.]	50-60+ up to 20-30+	15-16m up to 6-9m	4-8m varies	good good	varies: 3-5 [mainly 5]	medium-low	contiguous	adj.SEPP 19 /T&BPO SREP 23	exotic garden; significant s/s scarp & rock outcrops; Cea [dom.] - significant <i>Ceratopetalum apetalum</i> (dom.) native tree group; Cea X1 - old growth spec./ lopped to base/ herbicidal treatment; understorey highly disturbed/ modified; <i>Ficus coronata</i> [6+] - regrowth group incl. 1X lopped/ multi-stemmed - likely self-sown/ adj. restoration planting (unknown provenance); native ferns [<i>Calochlaena</i> , <i>Pteris</i> , <i>Adiantum</i> spp.]; <i>Cyathea cooperi</i> - cultivated origin; dom. weeds [incl. <i>Cardiospermum</i> , <i>Asparagus</i> , <i>Setaria</i> spp.]; listings subject to bdy. survey; no access.
mid-slope adj. to house lower slope to gully/ creek-line			Cea [1] Cea [dom.] Pu [dom.] Fco [6+]	?80-100+ up to 10-20+ up to 10-15+ up to 5-15+	<1m up to 4-9m up to 4-5m up to 2-4m	up to 2-5m varies up to 2-4m	? dead/ lopped good/ regrowth good/ regrowth good/ regrowth					
83 The Bulwark: front garden/ rock outcrops & scarp	s/s scarp s/s outcrops single tree	10ag(iii)	Cea [1]	20-30+	6m	6m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s scarp & rock outcrops; Cea [1] - on upper scarp adj. to bdy. No.81; remnant natives [incl. <i>Calochlaena</i> , <i>Pteris</i> spp.]; Pu regrowth; dom. weeds [incl. <i>Ligustrum</i> , <i>Phyllostachys</i> , <i>Lonicera</i> , <i>Hedera</i> spp.]
84 The Bulwark: front garden/ upper level/ adj. to steps steep embankment	s/s outcrops tree group remnant community	10ag(iii)	Cea [1]	80-100+	14m	10m	good	5	low	fragmented	adj.SEPP 19 /T&BPO	exotic garden; Cea [1] - old growth spec./ competition w. exotic <i>Pinus</i> sp.; weeds [<i>Nephrolepis</i> sp.]; gen. native planting; Pu regrowth; no access.
rear garden/ lower slope to reserve bdy.			Cea [1] Cea [dom.] Ceg [1] Cya [1] As [1] Pu	?100-150+ up to 10-15+ 60-80+ 20-30+ 20-30+ up to 20-30+	16m up to 3-7m 7m 4m 6m up to 8m	15m varies 6m 2.5m 3m varies	good good/ regrowth good good good/ regrowth good/ regrowth	varies: 3-5	medium-low	contiguous		significant s/s outcrops; Cea [1] - v. old growth/ massive multi-trunked [2]; Cea [dom.] - immature regrowth/ good regen.; remnant native understorey [incl. <i>Notelaea</i> , <i>Calochlaena</i> , <i>Morinda</i> , <i>Adiantum</i> spp.]; <i>Cyathea cooperi</i> - likely cultivated origin; dom. weeds [incl. <i>Erythrina</i> , <i>Ligustrum</i> , <i>Asparagus</i> , <i>Ochna</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.]; listings subject to bdy survey.

86 The Bulwark: front garden/ steep terraced slope adj. to driveway	s/s outcrops tree group remnant community	10ag(iii)	Ceg [1] Er [2]	60-80+ 15-20+	6m 3-6m	3m 2-3m	poor fair [1]/ good [1]	varies: 4-5	low	fragmented	adj.SEPP 19 /T&BPO	exotic garden; Ceg [1]- ext. die-back (70%)/ lopped; natives [<i>Adiantum</i> sp.]; significant s/s outcrops; highly modified. Bs [1]- old growth specimen; <i>Cyathea cooperi</i> (dom.)- likely cultivated origin. Cea X1/ good- multi-stemmed [4] spec.; <i>Eupomatia laurina</i> X1- likely planted; natives [incl. <i>Breynia</i> , <i>Pteris</i> , <i>Dianella</i> , <i>Hypolepis</i> , <i>Dichondra</i> , <i>Doodia</i> spp.]; dom. weeds on lower slope [<i>Tradescantia</i> sp.]; listings subject to bdy. survey.
rear garden/ upper slope & steep gully adj. to creek-line			Bs [1] Cea [1]	80-100+ 40-50+	7m 12m	4m 7m	good good/ pruned	varies: 3-5	medium-low			
lower slope to rear bdy. & drainage reserve			Cea [2]	40-60+	10-12m	7-9m	good [1]/ fair [1]					
Note: Cea [1]- v.old growth specimen on bdy. to drainage reserve refer to The Bulwark - Public Reserves: Retreat Reserve - Area A(v).												
												Survey Date: 6 Sep-10 Sep 2010
88 The Bulwark: front garden/ upper slope adj. to road verge & entry/ carport	s/s outcrops s/s scarp tree group remnant community	10ag(i)/ 10ag(iii)	Epip [1] Ac [1] Ac [1] Gf/ Pu	20-30+ 40-50+ 20-30+ up to 30-40+	9m 10m 8m up to 4-7m	9m 7m 3m varies	see notes good good good/ regrowth	varies: 3-5	medium-low	fragmented	adj.SEPP 19 /T&BPO	new residence [under construction]; Epip [1]- leaning trunk/ dead wood & ext. epicormic growth/ recommend arborist inspection ; remnant native understorey [incl. <i>Breynia oblongifolia</i> - 3m HT/ old specimen, <i>Lomandra</i> , <i>Adiantum</i> spp.]; gen. native planting [mature <i>Euc. microcorys</i> on verge & self-sown saplings up to 10-15+yrs.]
upper north-western slope [adj. to road verge] to mid-slope			Ac [1] Ac [1] Gf [4] Pu [dom.] Er [1] Cea [2]	80-100+ 50-60+ up to 30-40+ up to 30-40+ 5-10+ 10-15+	16m 15m up to 9-10m up to 6-9m 3m 4-5m	20m 8m up to 5-6m varies 1m 2-3m	good good good/ regrowth good/ regrowth good good					
lower north-western slope adj. to upper creek-line [drainage reserve]			Cal [2]	?40-50+	up to 5-7m	up to 3-4m	good [1]/ fair [1]					
lower north-eastern bdy. to upper creek-line/ rear bdy. [drainage reserve]			Cea [1] Pu (dom.)	?80-100+ up to 30-40+	1m up to 7-8m	varies	good/ lopped good/ regrowth					
Note: For listings within adjoining drainage reserve refer to The Bulwark - Public Reserves: Retreat Reserve - Area A(v).												
88A The Bulwark: front garden/	s/s outcrops	10ag(i)/	Cgu [2]	30-50+	12m	7-10m	good	varies: 3-5	medium-low	fragmented	adj.SEPP 19	new residence [under construction];

upper slope adj. to road verge & driveway/ carport	s/s scarp tree group remnant community	10ag(iii)	Gf [1] Mv [1]	30-40+ ?80-100+	7m 4m	6m 3.5m	regrowth good/ lopped				/T&BPO	Cgu [2]- some dead wood in crowns; <i>Myrsine variabilis</i> / Mv [1]- on upper verge/ v.old growth spec./ 100mm DBH/ subject to periodic lopping under o'head power-lines; remnant native understorey [incl. <i>Breynia</i> , <i>Pteridium</i> spp.]; Pu regrowth; weeds [<i>Olea</i> sp.].
rear garden/ lower slope to upper creek-line/ rear bdy. [drainage reserve]			Gf [1] Sygl [2] Pu [dom.] Bint [1]	40-50+ up to 15-20+ up to 30-50+ 20-30+	9m 3-5m up to 4-6m 10m	10m 1-4m varies 6m	good/ regrowth good good/ regrowth good					significant s/s scarp & rock outcrops; clearing/ pre-landscaping; remnant natives [incl. <i>Synoum glandulosum</i> , <i>Blechnum cartilagineum</i> , <i>Calochlaena</i> , <i>Doodia</i> , <i>Smilax</i> spp.]; dom. weeds [<i>Nephrolepis</i> , <i>Tradescantia</i> spp.]; gen. native planting [<i>Corymbia citriodora</i> , <i>Castanospermum australe</i>]; Bint [1]- likely cultivated origin.
Note: For listings within adjoining drainage reserve refer to The Bulwark - Public Reserves: Retreat Reserve - Area A(v).												
												Survey Date: 20 Sep-24 Sep 2010
89 The Bulwark: front garden/ rock outcrops & cutting	s/s outcrops s/s cutting two trees	10ag(i)	Ceg [1] Bint [1]	15-20+ 15-20+	4m 8m	2m 3m	fair good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant rock outcrops/ cutting; Ceg [1]- remove <i>Hedera</i> sp. on trunk; Bint [1]- possibly cultivated origin; remnant native g/covers [incl. <i>Calochlaena</i> , <i>Dianella</i> spp.]; <i>Cyathea cooperi</i> - likely cultivated origin; Pu regrowth; dom. weeds [incl. <i>Olea</i> , <i>Asparagus</i> spp.].
90 The Bulwark: front garden/ upper slope	tree group remnant community	10ag(i)/	Ac [1] Ac [1] Ac [1] Gf [dom.] Er [dom.] Ceg/ Bs Al/ Ka	80-100+ 50-60+ 60-80+ up to 5-10+ up to 10-15+ up to 10-15+ up to 10-15+	14m 12m 14m up to 1-3m up to 5-8m up to 3-4m up to 3-4m	20m 12m 12m up to 1-2m up to 1-3m up to 2-4m up to 2-4m	good good good good varies good good	varies: 3-5	medium-low	fragmented	adj.SEPP 19 /T&BPO	terraced garden; significant Ac group; Ac [1]- adj. to bdy. No.92/ old growth multi-trunk specimen; remnant natives [incl. <i>Podocarpus spinulosa</i> , <i>Breynia oblongifolia</i> (old spec./70mm DBH), <i>Calochlaena</i> , <i>Entolasia</i> , <i>Stephania</i> , <i>Glycine</i> spp.]; mixed generic & local native overlays/ unknown provenance [Er/Ceg/ Bs/ Al/ Ka/ Bint, <i>Pittosporum revolutum</i> , <i>Acacia terminalis</i> , <i>Grevillea linearifolia</i> , <i>Dianella</i> , <i>Lomandra</i> spp.]- likely all planted; also Es saplings; <i>Cyathea cooperi</i> - cultivated origin.
rear garden/ lower slope adj. to reserve bdy. [below pool deck]		10ag(iii)	Bint [1]	20-30+	4m	9m	see notes	varies: 4-5 [mainly 5]	low			Bint [1]-on bdy. No.88A/ leaning trunk likely cultivated origin; other generic native planting [<i>Acacia elata</i> , <i>Ficus coronata</i> , <i>Syzygium paniculatum</i>];

												remnant natives [incl. <i>Calochlaena</i> , <i>Hypolepis</i> spp.]; dom. weeds/ recent clearing [<i>Ligustrum</i> , <i>Cardiospermum</i> , <i>Ipomoea</i> , <i>Tradescantia</i> spp.].
												Survey Date: 25 Jan-29 Jan 2010
91 The Bulwark: rear garden/ upper level/ bdy. to reserve	single tree s/s outcrops	10ag(i)	Ac [1]	50-60+	12m	10m	good	5	low	restricted	T&BPO	exotic garden; significant s/s outcrops; subject to reserve boundary survey.
												Survey Date: 2 Aug-6 Aug 2010
93 The Bulwark: front garden/ upper driveway	tree group s/s outcrops	10ag(i)	Cgu [1]	60-80+	12m	8m	fair	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden/steep slope; Cgu [1]/ fair- ext. dead wood in crown; dom. weeds; Cal [1]- multi-stemmed regrowth/ remnant natives [<i>Homalanthus</i> sp.]; <i>Cyathea</i> sp.- cultivated origin.
lower driveway/ adj. to bdy. No.95 The Bulwark			Cal [1] Pu	?20-30+ up to 20-30+	4m up to 4-6m	4m varies	good good/ regrowth					
95 The Bulwark: front garden/ steep slope adj. to creek/ drainage easement	tree group s/s outcrops	10ag(i)	Cgu [1] Ac [1] Pu	60-80+ 50-60+ up to 20-30+	14m 12m up to 5-6m	7m 12m varies	fair poor good/ regrowth	5	low	restricted	T&BPO	exotic garden; highly modified/ dom. weeds; Cgu [1]- adj. to front bdy./ ext. dead wood/ new epicormic growth; Ac [1]- on upper slope/ ext. dead wood (40%); <i>Cyathea</i> sp.- cultivated origin; exotics/ weeds [incl. <i>Cardiospermum</i> , <i>Ligustrum</i> , <i>Asparagus</i> , <i>Setaria</i> spp.].
99 The Bulwark: rear garden/ upper terraced slope	two trees s/s outcrops	10ag(i)	Gf [1] Esi [1] Pu	40-50+ 60-80+ up to 20-30+	7m 10m up to 5-6m	8m 12m varies	good good good/ regrowth	5	low	restricted	T&BPO	exotic terraced garden/ open lawns; significant s/s outcrops; Gf [1]- adj. to bdy. No.97/ remove <i>Hedera</i> sp.; Esi [1]- adj. to bdy. No.101/ some dead wood; subject to bdy. survey.
												Survey Date: 6 Sep-10 Sep 2010
100 The Bulwark: rear garden/ adj. to bdy. No.102	two trees	10ag(i)	Cgu [1] Er [1]	60-80+ 20-30+	12m 6m	8m 6m	good good	5	low	restricted	adj.SEPP 19 /T&BPO	exotic garden; Cgu [1]- multi-trunk [2] spec./ possibly older; Pu regrowth; weeds [<i>Nephrolepis</i> sp.]; generic native planting.
												Survey Date: 2 Aug-6 Aug 2010
101 The Bulwark: rear garden/ upper terraced slope	tree group s/s outcrops	10ag(i)	Esi [1] Gf [1] Al [1] Pu [dom.]	60-80+ 40-50+ 30-40+ up to 30-40+	15m 7m 7m up to 5-6m	15m 8m 5m varies	good good good good/ regrowth	5	low	restricted	T&BPO	exotic terraced garden; significant s/s outcrops; Esi [1]- adj. to bdy. No.99/ some dead wood/ remove <i>Hedera</i> sp. on trunk; dom. exotics/ weeds [incl. <i>Nephrolepis</i> , <i>Asparagus</i> spp.]; gen. native planting [Bint].
												Survey Date: 6 Sep-10 Sep 2010
102 The Bulwark: front garden/ upper embankment to roadway [right-of-way]	tree group s/s outcrops	10ag(i)	Bs [1] Bint [1]	60-80+ 20-30+	4m 8m	5m 5m	fair good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO	exotic garden; current development application/ site redevelopment; dom. weeds; natives [incl. <i>Hypolepis</i> sp.]; Bint X2-likely cultivated origin/ self-

rear garden/ steep upper slope below scarp [north-east]	s/s scarp		Gf [1] Pu [dom.] Bint [1]	40-50+ up to 40-50+ 40-50+	7m up to 6-8m 8m	6m varies 5m	fair good/ regrowth poor			fragmented		sown; generic native planting. significant rock outcrops/ scarp; highly modified; Gf [1]- remove <i>Hedera</i> sp.; ext. weed thicket/ partially cleared [incl. <i>Lantana</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Tradescantia</i> , <i>Acetosa</i> spp.]; dead trees [stags]; <i>Cyathea cooperi</i> - likely cultivated origin.
steep slope below scarp/ large overhang [south-east]			Ac [1] Sycl	60-80+ up to 5-10+	14m <1.5m	7m <1m	good regen.	varies: 3-5 [mainly 5]	medium-low			significant s/s scarp, rock outcrops & overhang/ not recorded as Aboriginal archaeological site [see listings for Nos.3-7 & 11 The Barbican]; weed thicket [<i>Ligustrum</i> sp.(dom.)/ up to 7m HT]; mature <i>Cyathea cooperi</i> (dom.); remnant natives/ mesic shift [Pu/ Gf; <i>Synoum glandulosum</i> , <i>Clerodendrum tomentosum</i> , <i>Adiantum hispidulum</i> , <i>Calochlaena</i> , <i>Pteridium</i> , <i>Asplenium</i> , <i>Lomandra</i> spp.]; bdy. surveyed.
												Survey Date: 2 Aug-6 Aug 2010
103 The Bulwark: front garden/ lower level to roadway	s/s scarp	10ag(i)/						5	low	restricted	T&BPO	exotic terraced garden; significant s/s outcrops/ scarp & cutting to roadway;
rear garden/ upper level rock outcrops	s/s cutting	10ar(i)	Cgu [1] Ceg [1] Pu [dom.]	80-100+ 10-15+ up to 20-30+	12m 3m up to 5-6m	12m 1m varies	good good good/ regrowth					Cgu [1]- on rock outcrops/ old growth multi-trunked [3] specimen/ some dead wood; dom. exotics/ weeds [incl. <i>Cotoneaster</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.].
												Survey Date: 6 Sep-10 Sep 2010
104 The Bulwark: front garden/ upper level adj. to bdy. No.106	single tree	10ag(i)	Bs [1]	20-30+	5m	5m	good	5	low	restricted	T&BPO	exotic garden; Bs [1]- possibly planted.
												Survey Date: 2 Aug-6 Aug 2010
105 The Bulwark: front garden/ steep lower slope to roadway	tree group	10ag(i)	Ceg [1] Pu [dom.] Gf [1]	15-20+ up to 40-50+ <5	7m up to 6-7m 1.5m	2m varies 0.5m	good good/ regrowth good/ regrowth	5	low	restricted	T&BPO	exotic garden; generic native planting [incl.2 X <i>Euc. saligna</i> / <i>Xanthorrhoea</i> , <i>Lomandra</i> spp.-all likely planted; dom. weeds [incl. <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Bryophyllum</i> spp.].
												Survey Date: 6 Sep-10 Sep 2010
106 The Bulwark: front garden/ upper level adj. to public verge	tree group	10ag(i)	Ac [1] Er [2] Ceg [2] Bs [2]	80-100+ up to 20-30+ up to 20-30+ 10-15+	12m 3-4m 5-6m 5-6m	14m 2-3m 2-3m 4-5m	good good good good	5	low	restricted	T&BPO	Ac [1]- old growth spec./ some dead wood; local/ generic native & exotic planting [incl. Bint; <i>Banksia spinulosa</i> var. <i>collina</i> , <i>Callistemon</i> , <i>Grevillea</i> , <i>Hakea</i> spp.]; Er [2]/ Ceg [2]- possibly

												planted; Bs [2]- likely planted; listings subject to bdy. survey; no access.
												Survey Date: 2 Aug-6 Aug 2010
107 The Bulwark: front garden/ steep lower slope to roadway [below driveway]	tree group s/s outcrops	10ag(i)	Ac [1] Fru [1] Ac [1] Er [1] Ceg [1] Pu [dom.]	60-80+ 50-60+ 75-10+ 5-10+ 10-15+ up to 20-30+	9m 8m <0.5m 6m 3m up to 6-7m	12m 12m <0.5m 1.5m 1m varies	good good good/ lopped good good good/ regrowth	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s outcrops; exotic garden/ steep lower slope; Fru [1]- ext. multi- stemmed spec./ adj. to bdy. No.105; Ac [1]-adj. to roadway [verge bdy.?]; regrowth group/saplings [Ceg, Er, Ac/ stump w.epicormic growth]; Ac stag [standing dead tree]; remnant native g/covers [<i>Dianella</i> , <i>Pteridium</i> spp.]; dom. exotics/ weeds [<i>Lantana</i> , <i>Olea</i> , <i>Cotoneaster</i> , <i>Senna</i> , <i>Asparagus</i> , <i>Ochna</i> , <i>Nephrolepis</i> , <i>Hedera</i> spp.]; listings subject to bdy. survey.
												Survey Date: 6 Sep-10 Sep 2010
108 The Bulwark: front garden/ upper level	single tree s/s outcrops	10ag(i)	Ac [1]	60-80+	12m	12m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic terraced garden; Ac [1]- some pruning/ dead wood; remnant natives [incl. <i>Pteridium</i> sp.]; Pu regrowth.
												Survey Date: 2 Aug-6 Aug 2010
113 The Bulwark: front garden/ rock outcrops/ cutting to roadway	tree group s/s outcrops s/s cutting	10ar(i)	Ac [1] Era [1] Abin [1] Al [1] Pu [dom.]	40-50+ 10-15+ 15-20+ <5 up to 20-30+	8m 6m 9m 1.5m up to 6-7m	8m 2m 7m 1.5m varies	good fair good good good/ regrowth	5	low	restricted	T&BPO	significant rock outcrops/ cutting; exotic garden; generic native planting [incl. 2 <i>XEucalyptus saligna</i>]; Abin [1]-likely planted/ or cultivated origin; weeds.
115 The Bulwark: front garden/ sandstone outcrops/ rock shelf	single tree s/s outcrops s/s cutting	10ar(i)	Ac [1]	50-60+	7m	5m	good	5	low	restricted	T&BPO	significant rock outcrops/ cutting; exotic terraced garden; Ac [1]- on rock shelf/ ext. dead wood w. vigorous epicormic growth/ remove <i>Hedera</i> sp. on trunk.
117 The Bulwark: front garden/ sandstone outcrops	single tree s/s outcrops s/s cutting	10ar(i)	Era [1]	60-80+	8m	7m	good	5	low	restricted	T&BPO	significant rock outcrops/ cutting; exotic terraced garden/ lawn; Era [1]- dead wood/ vigorous epicormic growth.
119 The Bulwark: front garden	tree group	10ar(i)	Ac [1] Ac [1] Era [1] Cgu [1] Pu	60-80+ 50-60+ 50-60+ 60-80+ up to 20-30+	9m 8m 7m 10m up to 6-7m	16m 9m 8m 8m varies	good good good good good/ regrowth	5	low	restricted	T&BPO	exotic garden/ mulched garden bed; Era [1]- multi-trunked [3] specimen; significant native tree group; generic native planting/ overlay [<i>Euc.</i> spp./ Epu X1/ <i>Corymbia citridora</i>].
The Bulwark - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 20 Dec-24 Dec 2010
public verge/ embankment: adj. to bdy. No.1 The Bulwark [between private access road & The Bulwark cul-de-sac]	tree group	10ag(i)	Ac [1] Ac [1] Al [1] Af [1]	15-20+ 10-15+ unknown 10-15+	6m 4m 1m 5m	5m 3m 3m	good/ lopped good/ lopped lopped lopped	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	embankment; all trees lopped under o'head power-lines; part of significant remnant native [Ac dom.] tree group; remnant native ferns [<i>Pteridium</i> sp.];

													Pu regrowth; gen.native planting/ Af X1 cultivated; Pu regrowth; dom. weeds [<i>Ligustrum</i> , <i>Olea</i> , <i>Rhus</i> , <i>Nephrolepis</i> , <i>Asparagus</i> spp.]; all listings subject to boundary survey.
For adjoining embankment listings in cul-de-sac [part of this group] refer to following listing and The Bulwark - Residential Properties [No.1 The Bulwark].													
lower embankment between private access road [linking The Bulwark & Edinburgh Rd] & Knight Place [upper private roadway/ right-of-way]	tree group remnant community	10ag(i)	Ac [1] Ac [1] Ac [1] Fru	80-100+ 80-100+ 60-80+ <5	16m 18m 16m <0.5m	18m 18m 14m <0.5m	good good good good/ regrowth	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	listings subject to boundary survey; Ac X 2- old growth specs. on upper & midslope; natives [<i>Calochlaena</i> , <i>Pteris</i> <i>Omalanthus</i> spp.]; Ac X 1-lower slope/ adj. to bdy. No.2 The Bulwark/ some past lopping/ dead wood & competition w. <i>Liquidambar</i> sp.]; dom. weeds [<i>Ligustrum</i> , <i>Cinnamomum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.].	
Note: This remnant native tree group and community are located on a private right-of-way [not public land].													
easement/ scarp: between rear bdy. Nos.9-31 The Bulwark [odd nos. only] & rear bdy. Nos. 206-228 Edinburgh Rd [even nos. only]	s/s scarp s/s outcrops	10ar(i)/ 10ag(i)						varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s scarp & rock outcrops within easement/ subject to boundary survey; restricted access; see listings for adjoining properties [rear gardens]; likely restricted suite of remnant native g/covers & ferns/ mesic regrowth; dom. weeds.	
For pedestrian right-of-way between Nos.13-15 The Bulwark and 222-224 Edinburgh Road refer to Edinburgh Road - Road Reserves, Drainage Easements & Public Pedestrian Linkages.													
rock outcrops/ roadway cutting: adj. to Nos. 17-21 [odd nos.] The Bulwark	s/s outcrops s/s cutting remnant community	10ar(i)						varies: 4-5 [mainly 5]	low	restricted	T&BPO	native ferns & g/cover regen. assoc. w. significant rock outcrops/ roadway cutting [incl. <i>Gleichenia</i> , <i>Lobelia</i> spp.]; dom. weeds [<i>Nephrolepis</i> sp.]/ recent herbicidal treatment; <i>Cyathea</i> , <i>Pteris</i> , <i>Adiantum</i> spp.- likely cultivated origin.	
Survey Date: 1 Nov-5 Nov 2010													
easement between Nos.31-33 The Bulwark: pedestrian right-of-way/ steps	s/s outcrops s/s scarp single tree	10ar(i)/ 10ag(i)	Era [1]	?80-100+	6m	12m	fair	5	low	restricted	T&BPO	significant s/s scarp & rock outcrops; Era [1]- on upper scarp/ v.old growth multi-trunk [3] spec. w. massive base/ (possibly much older)/ some dead wood/ die-back (20%)/ new growth; native ferns [<i>Adiantum</i> sp.]; <i>Cyathea</i> sp.- cultivated origin; dom. weeds [incl. <i>Cotoneaster</i> , <i>Nephrolepis</i> spp.].	
For Ac [1] on mid-scarp level/ adj. to steps refer to The Bulwark - Residential Properties: 31 The Bulwark [rear garden].													
public verge: adj. to lower bdy. No.41 The Bulwark & front bdy. No.43 The Bulwark	single tree	10ag(i)	Ac [1] Ac	30-40+ <5	8m <0.5m	6m <0.5m	good regen.	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	Ac [1]- some pruning; part of larger remnant native group [see No.41 The Bulwark/ lower bdy. group]; remnant native g/covers [<i>Microlaena</i> sp.]; dom. weeds [<i>Phyllostachys</i> , <i>Genista</i> spp.].	

												Survey Date: 22 Aug-26 Aug 2011
public verge: rock outcrops adj. to Nos. 34A-36A The Bulwark	s/s outcrops s/s cutting single tree	10ar(i)	Ac [1]	60-80+	6m	12m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s outcrops & road cutting; Ac [1]- possibly older; remnant natives/ regen. [<i>Acacia linifolia</i> , <i>Lomandra</i> sp.]; exotics & generic native planting [Bint]; weeds [<i>Bryophyllum</i> sp.]; listing subject to boundary survey.
												Survey Date: 1 Aug-5 Aug 2011
public road reserve: corner The Bulwark/ The Scarp [adj. to No.50 The Bulwark]/ lower slope/ rock outcrops The Scarp [frontage]	s/s outcrops tree group remnant community	10ag(i)	Ac [1] Al [1] Pu [dom.] Epip [1] Had [1] Ac/ Had Gf/ Er Ac/ Had/ Ka Eha/ Bint Be/ Crho	60-80+ 20-30+ up to 30-40+ 15-20+ 20-30+ up to 10-15+ up to 10-15+ <5 up to 10-15+ up to 10-15+	7m 7m up to 5-6m 9m 6m up to 4-5m up to 4-5m <1m up to 4-6m up to 3-6m	8m 4m varies 6m 4m varies varies varies varies varies	fair good regrowth good fair good/ regen. good/ regen. good/ regen. varies varies	varies: 2-5 [mainly 4-5]	high-low	fragmented	T&BPO	significant s/s outcrops; remnant native tree group/ community; fragmented/ modified; Ac [1]/ fair- ext. dead wood; generic native planting/ overlays [<i>Euc. grandis</i> / incl. regen. saplings (dom.)/ Bint/ Be, Eha, <i>Callitris</i> , <i>Grevillea</i> spp.] (unknown provenance); remnant native understorey [<i>Epacris longiflora</i> , <i>Grevillea linearifolia</i> , <i>Xanthorrhoea</i> , <i>Allocasuarina</i> , <i>Hakea</i> , <i>Kunzea</i> , <i>Smilax</i> <i>Lomandra</i> , <i>Dianella</i> , <i>Austrodanthonia</i> , <i>Adiantum</i> , <i>Pteridium</i> spp.]; s/s shelf would respond to bush regen.strategy; varying level of weeds [incl. <i>Setaria</i> , <i>Pavonia</i> , <i>Asparagus</i> , <i>Ehrharta</i> spp.].
The Bulwark [frontage] upper verge								5	low			recent weed removal/ mulching & mixed local/ generic native planting.
												Survey Date: 25 Jul-29 Jul 2011
public easement: between Nos. 66-68 The Bulwark/ rock outcrops/ steep slope upper level of roadway [no public access]	s/s outcrops s/s scarp tree group remnant community	10ag(i)/ 10ag(iii)	Epip [1] Esi [1] Er Pu	50-60+ 15-20+ <5 up to 30-40+	12m 3m <1m up to 6-7m	12m 4m varies	fair fair/ lopped good/ regen. good/ regrowth	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO SREP 23	significant s/s scarp & rock outcrops; steep slope; native understorey [incl. <i>Calochlaena</i> sp.(dom.)]; generic native planting [incl. <i>Angophora floribunda</i> , <i>Leptospermum</i> , <i>Hakea</i> spp.]; dom. weeds [incl. <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Ochna</i> , <i>Tradescantia</i> spp.]; exotic gardens/ lower level; listings subject to boundary survey.
												Survey Date: 20 Sep-24 Sep 2010
For upper drainage reserve between Nos. 78-80 & 82 The Bulwark refer to The Bulwark - Public Reserves: Retreat Reserve - Area A(iv)												
For upper drainage reserve between Nos. 86 & 88-88A The Bulwark refer to The Bulwark - Public Reserves: Retreat Reserve - Area A(v)												
rock outcrops/ roadway cutting: adj. to Nos. 85-87 The Bulwark	s/s outcrops s/s cutting single tree remnant	10ag(i)	Ac [1] Fru [1]	60-80+ <10	8m 1m	10m 1.5m	good regrowth	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops/ road cutting; Ac[1]- possibly older; native g/covers [incl. <i>Calochlaena</i> , <i>Lomandra</i> , <i>Smilax</i> spp.]; Pu regrowth; dom. exotics/

community												weeds [incl. <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Setaria</i> , <i>Dietes</i> spp.].
The Bulwark - Public Reserves:												Survey Date: 6 Sep-10 Sep 2010
For Tower Reserve listing refer to The Citadel - Public Reserves.												
For Buttress Reserve listing (incl. easement between No.6 The Bartizan & No.49 The Bulwark) refer to The Citadel - Public Reserves.												
For Oriel Reserve refer to The Citadel - Public Reserves.												
For Embrasure Reserve refer to The Battlement - Public Reserves.												
												Survey Date: 22 Aug-26 Aug 2011
Merlon Reserve (Castlecrag Group)												
Merlon Reserve (including drainage easement) is a small landscaped reserve & car parking area [not scheduled SEPP 19] adjoining residential properties Nos.34/ 34A The Bulwark & 18 The Scarp. A 'merlon' forms the solid part of an embattled parapet and in this location may have referenced a particular rocky outcrop and outlook.												
small road-side public reserve: incl. carparking area [upper level]	s/s outcrops	10ag(i)						5	low	restricted	T&BPO	highly modified/ landscaped reserve/ extensive past filling/ earthworks; no remnant native canopy; exotics/ weeds; Pu regrowth.
drainage easement/ lower scarp adj. to roadway [The Scarp]								varies: 4-5 [mainly 5]				as above; remnant natives [<i>Pteridium</i> sp.]; exotics/ weeds [incl. <i>Nephrolepis</i> , <i>Lonicera</i> spp.]; generic./ local native planting; subject to boundary survey; no public access.
Note: Listing subject to boundary survey. Refer to adjoining listing for No.18 The Scarp. Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-16] (Lehany & Walker for WCC, 1997) .												
												Survey Date: 1 Aug-5 Aug 2011
public reserve: between Nos. 42 & 44 The Bulwark [incl. playground]	two trees	10ag(i)	Cgu [1] Gf [1] Cgu/ Eha Ahis/ Ka	80-100+ 20-30+ <5 <5	10m 3m up to 3-4m up to 2-3m	10m 3m varies varies	good good/ lopped good good	5	low	restricted	T&BPO	cleared/ modified; landscaping/ mown grass; Cgu [1]- adj. to public verge/ remnant old growth spec.; gen./ local native overlays/ unknown provenance [Eha, Cgu, Ka, Ahis, <i>Homalanthus</i> , <i>Acacia</i> spp.]; weeds [<i>Genista</i> sp.].
												Survey Date: 6 Sep-10 Sep 2010
Retreat Reserve (Castlecrag Group - contiguous with Sailors Bay Park and Castlehaven Reserve)												
Retreat Reserve is a major bushland reserve scheduled as SEPP 19: Bushland in Urban Areas (Public Open Space) in the Willoughby City Bushland Plan of Management (2000). Retreat Reserve listings are divided into Areas A(i-v) [refer to aerial photos] as follows:												
Area A(i): remnant bushland- adj. to lower foreshore track [adj. bdy. to No.3 The Barbican & No.102 The Bulwark] steep slope/ rock outcrops to inter-tidal area/ mud-flats upper slope/ rock outcrops & scarp/ overhang	s/s outcrops s/s scarp remnant community	10ag(i)/ 10ag(iii)	Ac/ Epip Pu/ Gf Bint/ Had Sygl	up to 80-100+ up to 30-40+ up to 30-40+ up to 5-10+	up to 12-18m up to 5-6m up to 4-8m <1.5m	varies varies varies <1m	varies regrowth good good/ regen.	varies: 1-5 [mainly 5]	high-low	fragmented	SEPP 19 /T&BPO SREP 23	varying level of disturbance/ weed invasion; littoral vine forest influence/ mesic understorey [incl. <i>Synoum</i> <i>glandulosum</i> , <i>Banksia integrifolia</i> , <i>Cissus hypoglauca</i> , <i>Notelaea</i> , <i>Smilax</i> , <i>Blechnum</i> , <i>Calochlaena</i> , <i>Adiantum</i> , spp.]; Pu (dom.) regrowth; ext. recent weed clearing [see listing for No.102 The Bulwark]; weed thicket on upper slope [<i>Ligustrum</i> sp.(dom.)/ up to 7m HT]; mature <i>Cyathea cooperi</i> (dom.)-

<i>Note: Retreat Reserve - Area A(i) adjoins Sailors Bay Park - Area B(iii). For Sailors Bay Park listing refer to Rockley Street - Public Reserves.</i>												cultivated origin; significant s/s scarp, & rock overhang/ not recorded as Aboriginal archaeological site [located between Nos. 3 The Barbican & 102 The Bulwark].
Area A(ii): remnant bushland-south-western slope adj. to lower rear bdy. Nos.90-98 The Bulwark	s/s outcrops remnant community	10ag(i)/10ag(iii)						varies: 4-5 [mainly 5]	low		steep slope; highly modified/ weed thicket [<i>Ligustrum</i> , <i>Lantana</i> , <i>Ochna</i> , <i>Setaria</i> , <i>Tradescantia</i> spp.]/ partially cleared [subject to future restoration].	
Area A(iii): core bushland-lower gully & creek-line to tidal flats [incl. waterfall]	s/s outcrops s/s scarp core bushland community	10ag(iii)	Sygl [dom.] Cea [dom.] TI Pu/ Gf Ac	up to 80-100+ up to100-150+ up to 30-40+ up to 30-50+ up to100-150+	up to 4-6m up to 12-18m up to 5-6m up to 5-6m up to 18-22m	up to 5-6m up to 12m up to 5-7m varies up to 25m	good good good regrowth good	varies: 1-2	high	contiguous	tidal flats- <i>Avicennia marina</i> [3-6m HT]; lower gully & creek-line w. significant s/s scarp & rock outcrops; largely intact littoral vine forest canopy- <i>Synoum glandulosum</i> (dom.)/ multi-stemmed incl. old growth specs./ <i>Tristaniopsis laurina</i> ; native understorey [<i>Cissus hypoglauca</i> , <i>Blechnum cartilagineum</i> , <i>Adiantum hispidulum</i> , <i>Calochlaena</i> , <i>Dianella</i> , <i>Dichondra</i> , <i>Sellaginella</i> spp.]	
<i>Note: Retreat Reserve - Area A(iii) adjoins Castlehaven Reserve - Area A(i). For Castlehaven Reserve listing refer to The Scarp - Public Reserves.</i>												grading to significant old growth stand of <i>Ceratopetalum apetalum</i> (dom.) w. occasional emergent Ac/ old growth specimens; Epip- old growth stumps; native understorey [<i>Notelaea</i> , <i>Todea</i> , <i>Lasiopteris</i> spp.]; minimal weeds; Eastern Water Dragon (<i>Physignathus lesueurii</i>) -local population/ v.common.
mid-gully to upper creek-line [north-eastern side of creek]												
Area A(iv): remnant bushland-upper creek-line/ north-west drainage line between lower rear bdy. Nos.78-80 & 82 The Bulwark	s/s outcrops s/s scarp tree group remnant community	10ag(iii)	Cea [dom.] Cea [dom.] Cea [dom.] Pu Ac Sygl [dom.] Fru Fco	up to100-150+ up to10-15+ <5 up to 30-50+ up to100-150+ up to 5-10+ up to 10-15+ up to 15-20+	up to 16-18m up to 3-6m up to 1-2m up to 5-6m up to 18-22m up to 3-4m up to 2-3m up to 7m	up to 12m up to 2-3m <0.5m varies up to 25m up to 1-2m varies up to 12m	good good good/ regen. regrowth good good good good	varies: 3-5	medium-low	contiguous	steep embankment/ upper gully & creek-line; significant s/s scarp & rock outcrops; largely intact native canopy/ old growth stand of <i>Ceratopetalum apetalum</i> (dom.); highly disturbed/ modified native understorey [<i>Cissus antarctica</i> , <i>Calochlaena</i> spp.]; dom. weeds [<i>Ligustrum</i> , <i>Cardiospermum</i> , <i>Tradescantia</i> spp.]; current regen./ restoration strategy; generic native overlays [<i>Elaeocarpus grandis</i> (syn. <i>E. angustifolius</i>), <i>Castanospermum australe</i> , <i>Brachychiton acerifolius</i> , <i>Eucalyptus saligna</i> , <i>Syncarpia</i> spp.]; local natives [Fco- <i>Ficus coronata</i> /	

												<i>Eupomatia laurina</i>]- likely restoration planting (unknown provenance); <i>Cyathea cooperi</i> - cultivated origin.
Area A(v): remnant bushland- upper creek-line/ south-west drainage line between lower rear bdy. Nos.86 & 88-88A The Bulwark	s/s outcrops tree group remnant community	10ag(iii)	Ac [1] Cea [4] Cea [1] Cea [1] Cea [dom.] Pu	80-100+ up to 15-20+ ?80-100+ unknown <5 up to 30-50+	18m up to 5-6m 12m 9m <0.5m up to 5-6m	16m up to 2.5m 12m 5m varies	good good good good/ regrowth good/ regen. good/ regrowth	varies: 3-5	medium-low	fragmented		upper gully & creek-line; significant rock outcrops; fragmented canopy incl. significant <i>Ceratopetalum apetalum</i> old growth & younger regrowth group; Ac [1]/ Cea [1]- old growth specs./ Cea [1]- multi-stemmed regrowth on old growth stump/ bdy. No.86 The Bulwark; highly disturbed/ modified understorey [incl. <i>Todea barbara</i>]; <i>Cyathea cooperi</i> (dom.)- cultivated origin; dom. exotics/ weeds [<i>Alocasia</i> , <i>Hedychium</i> , <i>Tradescantia</i> spp.].
The Citadel - Residential Properties:												Survey Date: 8 Nov-12 Nov 2010
5 The Citadel: front garden/ lawn area	two trees s/s outcrops	10ar(i)	Bs [1]	80-100+	6m	7m	good	5	low	restricted	adj.SEPP 19 /T&BPO	exotic garden; Bs [1]- old growth sculptural spec./ some pruning for o'head power-lines.
rear garden/ adj. to rear bdy. to reserve [Tower Reserve]			Ac [1]	80-100+	9m	14m	good					Ac [1]- old growth multi-trunk spec./ part of contiguous native tree group [see Tower Reserve: Area B(i)]
9 The Citadel: front garden/ rock outcrops adj. to upper driveway & garage	tree group s/s outcrops	10ar(i)	Epip [1] Al [3] Fru [1] Er/ Fru	80-100+ 15-20+ 10-15+ <5	7m 5-6m 4m <1m	12m 4-5m 6m <1m	poor good good good/ regen.	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO	exotic garden; significant s/s outcrops; Epip [1]- old growth multi-trunked [3] spec./ ext.dead wood/ die-back (60%) & lopping/ remove <i>Parthenocissus</i> sp. on trunk; Fru [1]- on rock outcrops to front bdy.; Pu regrowth; weeds [incl. <i>Ligustrum</i> , <i>Cotoneaster</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.].
<i>Note: Listings subject to boundary survey. Refer to adjoining listings for No.11 The Citadel & public verge.</i>												
												Survey Date: 25 Oct-29 Oct 2010
11 The Citadel: front garden/ rock outcrops adj. to carport	s/s outcrops s/s scarp tree group remnant community	10ar(i)	Cgu [1] Cgu [1] Fru [1] Fru [1]	80-100+ 60-80+ 20-30+ 5-10+	8m 8m 4m 1.5m	12m 4m 6m 2m	good fair good good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO	exotic garden; significant s/s scarp & rock outcrops; Cgu [1]- old growth spec./ adj. to steps & carport; Cgu [1]/ fair- rear of carport adj. to bdy. No.9/ multi-trunk [2]/ ext. dead wood (30%); remnant natives [incl. <i>Davallia solida</i> var. <i>pyxidata</i> , <i>Asplenium</i> , <i>Dianella</i> spp.]; Pu regrowth; <i>Cyathea</i> sp.-likely cultivated origin; dom. weeds [incl. <i>Cinnamomum</i> sp.].
<i>Note: Listings subject to boundary survey. Refer to adjoining listings for No.9 The Citadel & roadway cutting.</i>												
13 The Citadel: front garden/	s/s outcrops	10ar(i)	Cgu [2]	60-80+	8-10m	9-10m	good	5	low	restricted	adj.SEPP 19	exotic garden; significant s/s outcrops

upper rock outcrops adj. to bdy. No.11 The Citadel	s/s cutting tree group		Al [1] Er [1]	30-40+ 15-20+	4m 4m	7m 1.5m	v.poor poor				/T&BPO	& cutting; Cgu [2]- possibly multi-trunk [2] old growth spec.; Al [1]/ v.poor-ext. die-back (70%); Er [1]/ poor/ ext. dead wood; gen. native planting [incl. <i>Eucalyptus robusta</i> / <i>E. botryoides</i> / <i>E. globulus</i> , <i>Melaleuca</i> spp.].
rear garden/ upper scarp rock outcrops adjoining easement & Buttress Reserve	s/s/ scarp		Epip [1] Fru/ Er	60-80+ <5	6m 1m	8m 0.5m	fair good	varies: 4-5 [mainly 5]				significant s/s scarp & rock outcrops; Epip [1]/ fair- on rock face/ dead wood & lopped; remnant natives [<i>Lomandra</i> sp.]; dom. weeds [<i>Senna</i> , <i>Ochna</i> , <i>Nephrolepis</i> spp.].
15 The Citadel: rear garden/ upper terrace/ rock outcrops & steep slope	s/s outcrops s/s scarp single tree remnant community	10ar(i)/	Fru [1] Ceg [6+] <i>Ac/ Ceg/ Bs</i>	80-100+ unknown <i>up to 5-10+</i>	9m up to 1.5m <i>up to 2m</i>	15m varies <i>varies</i>	fair good/ lopped <i>good</i>	5	low	restricted	T&BPO	Griffin residence/ Inter-war period built 1929; terraced exotic garden; significant s/s scarp & rock outcrops; Fru [1]/ fair-old growth multi-stemmed spec.[1400mm DBH]/ decline during drought/ recent storm damage/ vigorous new growth; Ceg [6+]/ group possibly single old growth specimen.
lower slope/ north-east gully scarp & rock outcrops adj. to bdy. Buttress Reserve		10ag(i)	Bint/ Cal/ Be	<i>up to 10-15+</i>	<i>up to 3-4m</i>	<i>varies</i>	<i>good</i>	varies: 4-5 [mainly 5]				owner confirmed survey bdy./ lower slope/ gully weed thicket in late 1970s [<i>Phyllostachys</i> sp.]; since restored w. gen. & local native planting (unknown provenance) [<i>Ceg/ Bs/ Ac/ Bint/ Cal/ Be/ Xanthorrhoea</i> sp.- <i>likely planted</i>]; remnant natives/ regen. [incl. <i>Acacia parramattensis</i> , <i>Hypolepis</i> , <i>Blechnum</i> , <i>Histiopteris</i> , <i>Pteris</i> , <i>Adiantum</i> , <i>Juncus</i> , <i>Wahlenbergia</i> spp.].
												Survey Date: 20 Sep-24 Sep 2010
21 The Citadel: front garden/ upper level to cul-de-sac	s/s outcrops s/s scarp	10ar(i)/	Ac [1]	40-50+	7m	7m	good	5	low	restricted	T&BPO	significant s/s scarp & rock outcrops; terraced exotic garden; no access.
rear garden/ upper level lower slope	tree group		Ac [1] Epip [1]	60-80+ 80-100+	8m 16m	12m 16m	good good					Ac [1]- upper level/ some dead wood; Epip [1]- on lower slope adj. to bdy. No.19/ old growth spec./ some dead wood; Pu regrowth.
23 The Citadel: front garden/ upper level adj. to garage/ driveway & bdy. No.25	s/s outcrops s/s scarp tree group remnant community	10ar(i)/	Ac [1] Ac [1] <i>Bs [2]</i> <i>Be [1]</i>	60-80+ 15-20+ <i>10-15+</i> <i>5-10+</i>	6m 7m <i>2-5m</i> <i>2m</i>	10m 5m <i>3m</i> <i>2m</i>	good good <i>good</i> <i>good</i>	5	low	fragmented	T&BPO	exotic garden; Ac X1- remove <i>Ficus</i> sp.on trunk; significant remnant native tree group [Ac dom.]; listings subject to bdy. survey; generic native planting; <i>Bs/ Be/ Bint/ As- all likely planted</i> ; Ac [1]- old growth spec.; Ac [1]/ fair-
upper steep slope adj. to bdy. No.25			Ac [1] Ac [1]	80-100+ 40-50+	12m 7m	15m 7m	good fair					

mid-lower slope		10ag(i)	Er [3+] Esi [1] Ac [2] Ceg/ Fru/ Er	5-10+ 80-100+ 20-30+ up to 5-10+	up to 6m 9m 6-7m <2m	up to 2m 18m 3m <1m	good poor good [1]/ fair [1] varies	varies: 4-5				ext. dead wood/ regrowth; Esi [1]- old growth spec./ext. dead wood & crown die-back (50%)/ epicormic growth; remnant natives [incl. <i>Xanthorrhoea</i> , <i>Ceratopetalum</i> , <i>Elaeocarpus</i> , <i>Ficus</i> , <i>Homalanthus</i> , <i>Eustrephus</i> , <i>Dianella</i> , spp.]; <i>Dendrobium/ Thelychiton</i> spp.- cultivated origin; weeds [<i>Asparagus</i> , <i>Nephrolepis</i> spp.].
rear garden/ upper scarp			Ceg [1]	40-50+	4m	3m	fair	5		restricted		significant rock outcrops, s/s scarp & overhang [small caves]; also Ceg X1 dead; dom. exotics/ weed thicket; <i>Cyathea cooperi</i> - cultivated origin.
lower rear garden/ below scarp adj. to pedestrian right-of-way			Ceg [1] Ceg [1] Pu [dom.]	60-80+ 30-40+ up to 40-50+	7m 7m up to 8-9m	4m 2m varies	good good regrowth					
27 The Citadel: front garden/ upper level/ rock outcrops	s/s outcrops	10ar(i)/						5	low	restricted	T&BPO	exotic garden; significant s/s outcrops; no remnant natives evident [see adj. verge listing]; no access.
The Citadel - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 8 Nov-12 Nov 2010
<i>For public verge listings adj. to No.40 The Battlement refer to The Battlement - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
<i>For island at intersection of The Citadel/ The Battlement refer to The Battlement - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
<i>For easement adjoining/ forming eastern boundary to Oriel Reserve refer to The Citadel - Public Reserves.</i>												
embankment/ road reserve: adj. to bdy. No.1 The Citadel [cnr. to Edinburgh Road]	s/s outcrops remnant community	10ar(i)	Ac/ Epip/ Ap Eha/ Bs/ Al Ahis/ Be/ Ka Crho [5]	up to 5-10+ up to 5-10+ up to 5-10+ up to 10-15+	up to 3-5m up to 3-5m up to 2-4m 3-4m	varies varies varies 2-4m	varies varies varies good/ lopped	5	low	restricted	T&BPO	significant s/s outcrops; mulched beds/ highly modified; Pu regrowth; mixed generic/ local native overlays; listings+ <i>Grevillea</i> , <i>Leptospermum</i> , <i>Themeda</i> , <i>Acacia</i> , <i>Eustrephus</i> , <i>Microlaena</i> , <i>Dianella</i> spp.- all restoration planting (unknown provenance) ; no native regen.; dom. weeds [<i>Ehrharta</i> sp.].
rock outcrops/ roadway cutting: adj. to Nos. 3, 5 & 7 The Citadel	s/s outcrops s/s cutting	10ar(i)						varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops/ road cutting; subject to bdy.survey; remnant natives [<i>Adiantum</i> , <i>Wahlenbergia</i> spp.]; recent clearing/ herbicidal treatment & native restoration planting; <i>Callistemon</i> / <i>Cyathea</i> sp.- cultivated origin.
grass verge/ mulched beds: adj. to No.9 The Citadel	tree group s/s outcrops	10ar(i)/ 10ag(i)	Epip [1] Al [4] Al [5+] Ka [2] Er/ Gf/ Pu Ka	?100-150+ 20-30+ up to 10-15+ 20-30+ up to 10-15+ up to 5-10+	14m up to 4-6m up to 3-4m 3m up to 3-4m up to 1-2m	16m up to 5-7m varies 3-5m varies varies	good varies good good good/ regrowth good/ regen.	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	mown lawn/ mulched beds; significant rock outcrops; Epip [1]- v.old growth multi-trunked [2] spec./1200mm DBH; significant remnant native group/regen. [<i>Allocasuarina</i> , <i>Kunzea</i> , <i>Elaeocarpus</i> , <i>Dianella</i> , <i>Microlaena</i> spp.]; recent native restoration/ tubestock planting

												(unknown provenance); <i>Cyathea</i> sp.-cultivated origin; dom. weeds [incl. <i>Cinnamomum</i> , <i>Ligustrum</i> , <i>Asparagus</i> , <i>Cotoneaster</i> , <i>Nephrolepis</i> spp.].
												Survey Date: 25 Oct-29 Oct 2010
central island in cul-de-sac: The Citadel [opp. Nos.11-23 The Citadel]	s/s outcrops s/s cutting tree group remnant community	10ar(i)	Ac [3] Bs/ Be Ceg/ Had Al/ Ka/ Gf Crho	20-30+ up to 5-10+ up to 5-10+ up to 5-10+ up to 10-15+	6-7m up to 2-3m up to 2-3m up to 2-3m up to 4m	4-6m varies varies varies varies	good good good good good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	roadway island w. raised s/s edging; [Inter-war period/ Griffin layout- cultural heritage element]; highly disturbed/ modified community; significant s/s cutting & s/s outcrops; landscaped w. exotics/ removed (post-1996); Ac [3]- possibly planted or self-sown; generic native overlays [<i>Melaleuca armillaris</i> , <i>Corymbia citriodora</i> , <i>Euc. botryoides</i>] & ext. local native restoration planting (unknown provenance) [incl. Bs/ Be/ Ceg/ Had/ Al/ Ka/ Bint/ <i>Petrophile</i> <i>anethifolius</i> , <i>Callitris</i> , <i>Leptospermum</i> , <i>Lambertia</i> , <i>Dodonaea</i> , <i>Xanthorrhoea</i> , <i>Acacia</i> , <i>Hibbertia</i> , <i>Hardenbergia</i> , <i>Lomandra</i> , <i>Dianella</i> , <i>Dichelachne</i> , <i>Themeda</i> , <i>Doodia</i> spp.]; possibly some native regen. [Gf/ Had/ Al/ Ka]; o'head power-lines restrict canopy height; minimal weeds.
Note: For further details of road island management history refer to <i>Griffin Reserves Plan of Management - Inventory of Road Islands</i> [L-17] (Lehany & Walker for WCC, 1997) .												
rock outcrops/ roadway cutting: adj. to No.11 The Citadel	s/s outcrops s/s cutting tree group remnant community	10ar(i)	Cgu [1] Bs [1] Er [1] Bs [1] Al [1] Al [17+] Ac/ Cgu/ Bs	50-60+ 40-50+ 10-15+ 5-10+ 20-30+ <5 <5	7m 2m 3m 4m 3m up to 1-5m up to 1-2m	7m 3m 2m 1m 4m varies <0.5m	good good good good poor good/ regen. good/ regen.	varies: 3-5	medium-low	fragmented	T&BPO	significant rock outcrops/ road cutting; listings subject to bdy. survey; Cgu [1]/ Bs [1]- on rock outcrops adj. to drive- way; significant remnant native group/ good natural regen. [Cgu/ Ac/ Al/ Bs]; native understorey [incl. <i>Lomandra</i> <i>longifolia</i> / <i>L. glauca</i> , <i>Calochlaena</i> , <i>Hardenbergia</i> , <i>Dianella</i> , <i>Adiantum</i> , <i>Platycerium</i> spp.]; Pu regrowth; <i>Hakea gibbosa</i> / <i>Hibbertia scandens</i> / <i>Cyathea cooperi</i> - likely cultivated origin; also generic natives/ self-sown [<i>Corymbia citriodora</i>]; varying level of weeds [<i>Cotoneaster</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.].
Note: Listings subject to boundary survey. Refer to adjoining listing for No.11 The Citadel.												
easement/ scarp: adj. rear bdy. to Nos.15-17 The Citadel &	s/s outcrops s/s scarp	10ar(i)/ 10ag(i)	Fru Ka/ Al/ Lep	<5 up to 5-10+	<1m up to 3-4m	<1m varies	good good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s scarp & rock outcrops; weed thicket progressiveluy restored

No.6 The Bartizan	remnant community		Bs/ Be/ Er	up to 5-10+	up to 3-4m	varies	good					since 1970s [see 15 The Citadel]; successive overlays/ generic & local natives (unknown provenance) [incl. <i>Elaeocarpus</i> , <i>Kunzea</i> , <i>Allocasuarina</i> , <i>Banksia</i> , <i>Leptospermum</i> , <i>Melaleuca</i> <i>Cyathea</i> spp.]; remnant natives [incl. <i>Lomandra confertifolia</i> ssp. <i>ruginosa</i> <i>Histiopteris</i> , <i>Hypolepis</i> spp.]; Pu regrowth; dom. weeds [<i>Cotoneaster</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.].
grass verge/ rock outcrops: adj. to No.27 The Citadel	single tree s/s outcrops	10ar(i)	Al [1]	10-15+	4m	4m	good	5	low	restricted	T&BPO	significant rock outcrops; mown grass verge; some remnant natives/ regen. [<i>Allocasuarina</i> , <i>Wahlenbergia</i> spp.]; generic native planting [incl. <i>Lomandra</i> , <i>Pennisetum</i> spp.]; <i>Callistemon</i> sp.-cultivated origin; weeds.
												Survey Date: 8 Feb-12 Feb 2010
public pedestrian right-of-way: linking Gargoyle & Oriel Reserves adj. to rear bdy. Nos.21-27 The Citadel & rear bdy. Nos.71-77 The Bulwark	tree group s/s outcrops	10ag(i)	Pu [dom.]	up to 30-40+	up to 5-6m	varies	regrowth	varies: 4-5 [mainly 5]	low	restricted	T&BPO	highly modified/ disturbed; mesic shift/ Pu regrowth; remnant native ferns [<i>Hypolepis</i> sp.]; gen. native planting/ landscaping; dom. exotics/ weeds [incl. <i>Nephrolepis</i> , <i>Tradescantia</i> spp.].
The Citadel - Public Reserves:												Survey Date: 25 Oct-29 Oct 2010
Tower Reserve (Castlecrag Group) Tower Reserve, located between The Citadel, Edinburgh Road and The Bulwark, is part of the Castlecrag Group of bushland reserves and is partially scheduled as SEPP 19: Bushland in Urban Areas (Public Open Space) in the Willoughby City Bushland Plan of Management (2000). Tower Reserve is a small reserve conserving an isolated patch of remnant bushland associated with significant rock outcrops/ formations and scarp. These elevated rock outcrops, known as Castle Rock [portion scheduled SEPP 19] 'prompted [Walter Burley] Griffin to name the roads and reserves after the parts of a castle' (<i>Lehany & Walker for WCC, 1997</i>). The lower south-western portion [also identified as SEPP 19], central and south-eastern portions of the reserve are highly modified. The reserve is bordered by residential development.												
Tower Reserve listings are divided into Areas A-D [refer to aerial photos] as follows:												
Area A(i): Castle Rock group/ core bushland- northern scarp/ tor, rock outcrops & rock pavement [upper level/ southern rock outcrops]	s/s outcrops s/s scarp core bushland community	10ar(i)	Crho [dom.] Ka/ Al [dom.] Be/ Er Fru/ Pu/ Ap	up to 30-40+ up to 30-40+ up to 20-30+ up to 20-30+	up to 4-7m up to 3-5m up to 3m up to 4-6m	1-1.5m varies varies varies	good good good regrowth	varies: 1-5	high-low	contiguous	SEPP 19/ T&BPO	significant s/s scarp & rock outcrops/ formations and rock pavement; high biodiversity/ largely intact community assoc. w. elevated rock outcrops [incl. <i>Callitris rhomboidea</i> , <i>Allocasuarina littoralis</i> , <i>Kunzea ambigua</i> , <i>Banksia ericifolia</i> [doms.], <i>Hakea teretifolia</i> , <i>Leptospermum trinervium</i> , <i>Actinotus helianthi</i> , <i>Acacia ulicifolia</i> , <i>Microsorium scandens</i> , <i>Asplenium flabellifolium</i> , <i>Dianella caerulea</i> / <i>D. revoluta</i> , <i>Lobelia alata</i> , <i>Austrodanthonia</i> , <i>Histiopteris</i> , <i>Entolasia</i> , <i>Xanthosia</i> , <i>Epacris</i> spp.];

												Fru/ Pu/ <i>Acacia parramattensis</i> - mesic shift/ regrowth on southern slope; some weeds [<i>Ligustrum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Genista</i> , <i>Bryophyllum</i> , <i>Chlorophytum</i> spp.]
Area A(ii): Castle Rock group/ core bushland- upper eastern scarp & rock outcrops			Ka/ Al [dom.] Ac Had	up to 30-40+ up to 30-40+ up to 30-40+	up to 3-5m up to 6-7m up to 3-4m	varies up to 4-5m up to 3-4m	good good good	varies: 1-2	high			high biodiversity; natives [incl. Ka/ Al doms./ <i>Hakea dactyloides</i> , <i>Pultenaea daphnoides</i> , <i>Epacris longiflora</i> , <i>Acacia terminalis</i> , <i>A. suaveolens</i> , <i>Woolfsia pungens</i> , <i>Caustis pentandra</i> , <i>Gahnia erythrocarpa</i> , <i>Actinotus</i> , <i>Dianella</i> , <i>Pomax</i> , <i>Smilax</i> spp.]; min. weeds.
<i>Note: Rock pavement extends into rear gardens of Nos. 192 & 196-198 Edinburgh Road. Refer to Edinburgh Road - Residential Properties.</i>												
Area B(i): Castle Rock group/ remnant bushland- lower south-western rock outcrops/ shelf adj. to rear bdy. Nos.5 & 7 The Citadel	s/s outcrops remnant community	10ar(i)	Ka [dom.] Ac/ Al/ Er Fru/ Gf/ Pu As [1]	up to 30-40+ up to 10-15+ up to 10-15+ 10-15+	up to 3-5m up to 4-6m up to 5-6m 5m	varies up to 2-3m varies 3m	good good good/ regrowth good	varies: 3-5	medium-low	fragmented	SEPP 19/ T&BPO	varying level of disturbance/ weed invasion & modification; significant s/s outcrops; Cgu X1- dead standing tree; current bush regen. strategy; remnant natives [incl. <i>Lepidosperma</i> , <i>Hypolepis</i> , <i>Xanthosia</i> , <i>Dianella</i> spp.]; restoration planting (unknown provenance); <i>Acmena smithii</i> -likely cultivated origin; weeds [incl. <i>Nephrolepis</i> spp.].
Area B(ii): north-western cnr. of reserve/ rock shelf adj. to rear bdy. Nos.1 & 3 The Citadel	single tree s/s outcrops	10ar(i)	Fru [1]	40-50+	5m	10m	good	5	low	restricted	SEPP 19/ T&BPO	highly disturbed/ modified; dom. weed thicket; Fru [1]- adj. to bdy. No.1 The Citadel; no other remnant natives; recommend amend SEPP 19 mapping for this portion of reserve.
Area C(i): central & south-western portion of reserve adj. to rear bdy. Nos.9, 11 & 13 The Citadel	single tree s/s outcrops	10ar(i)	Fru [1]	20-30+	6m	7m	good	5	low	restricted	SEPP 19/ adj.SEPP 19 /T&BPO	highly disturbed/ modified; significant rock outcrops; dom.exotics/ weeds [<i>Erythrina</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.]; gen.native planting [mixed <i>Euc.</i> spp.]; Pu/ Gf/ Fru mesic regrowth; recommend amend SEPP 19 mapping for this portion of reserve.
Area D(i): south-eastern cnr./ upper rock outcrops & scarp between steps & bdy. to No.41 The Bulwark [incl. easement]	s/s outcrops s/s scarp tree group remnant community	10ar(i)	Cali [1] Ceg [7+] Be [1]	?50-60+ unknown 10-15+	4m up to 2m 3m	5m 4m [group] 5m	fair good good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO	significant rock outcrops/ formations; exotic garden/highly modified; Cali [1]/ <i>Callistemon linearis</i> - v.old spec./ likely remnant [locally rare]/ ext. dead wood; Ceg [7+]- possibly old growth/ single spec./ multi-stemmed regrowth; some remnant native g/covers [<i>Dianella</i> sp.]; Be [1]- likely planted.
adj. to driveway & bdy.			Epip [1]	80-100+	9m	10m	fair	5				Epip [1]- old growth multi-trunk spec./

to No.41 The Bulwark			Era [1]	?60-80+	4m	3m	v.poor					ext. dead wood/ vigorous epicormic growth; Era [1]- ext. dead wood/ die-back (90%)/ epicormic growth; dom. exotics/ weeds [incl. <i>Erythrina</i> sp.].
Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-3] (<i>Lehany & Walker for WCC, 1997</i>) .												
Buttress Reserve												
Buttress Reserve is a small bushland reserve [not scheduled SEPP 19] located between The Citadel, The Bartizan and The Bulwark. The reserve is bordered by residential development.												
remnant bushland- lower slope/ rock outcrops adj. south bdy./ scarp to Tower Reserve & easement to rear bdy. No.15 The Citadel/ No.6 The Bartizan & Nos.41 & 47-49 The Bulwark	tree group s/s outcrops s/s scarp remnant community	10ar(i)/ 10ag(i)	Ac [1] Ebo [1] Ebo [1] Cgu [1] Bs/ Be Al/ Er/ Ceg Pu [dom.] Ebo	40-50+ 30-40+ 20-30+ 20-30+ up to 5-10+ up to 10-15+ up to 30-40+ <5	8m 9m 7m 9m up to 3-4m up to 5-7m up to 6-7m up to 2m	3m 6m 5m 5m varies varies varies up to 1m	see notes fair see notes good good good good/ regrowth good/ regen.	varies: 4-5	low	fragmented	T&BPO	significant rock outcrops/ formations & scarp; highly disturbed/ modified; no public access into reserve; weed thicket [<i>Phyllostachys</i> sp.(dom.)] removed in 1997/ restoration strategy; controlled pile burn conducted in 2004; Ac [1]- dead wood/ vigorous regrowth; Ebo [1]/ fair- possibly remnant native [see No.41 The Bulwark]/ dead wood/ remove <i>Parthenocissus/ Lonicera</i> spp. on trunk; Ebo [1]/ see notes- leaning trunk/ext. dead wood; Cgu [1]-remove <i>Parthenocissus</i> sp.; gen. native tree/ shrub planting up to 15-20yrs+ [incl. <i>Euc. saligna</i> , <i>E. microcorys</i> , <i>E. elata</i> , <i>E. pilularis</i> , <i>Corymbia citriodora</i>]; also local native planting [incl. Bs/ Be/ Al/ Er/ Ceg- all likely planted + <i>Hakea gibbosa</i> , <i>Allocasuarina torulosa</i> , <i>Hibbertia scandens</i>]; possibly some remnant natives [<i>Grevillea linearifolia</i> , <i>Hypolepis</i> , <i>Histiopteris</i> , <i>Lomandra</i> , <i>Dianella</i> , <i>Microlaena</i> , <i>Wahlenbergia</i> , <i>Stephania</i> , <i>Eustrephus</i> , <i>Pandorea</i> spp.]; varying level of exotics/ weeds [incl. <i>Jacaranda</i> , <i>Eriobotrya</i> , <i>Strelitzia</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Briza</i> spp.]; listings subject to bdy. survey.
easement between No.6 The Bartizan & No.49 The Bulwark			Cal [1] Cal/ Al	10-15+ <5	5m up to 3m	1.5m varies	good good	5	low	restricted		mulched/ recent restoration planting [Cal/ Al/ Hakea teretifolia , <i>Persoonia</i> , <i>Acacia</i> , <i>Dodonaea</i> , <i>Lomandra</i> spp.- all planted].
Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-4] (<i>Lehany & Walker for WCC, 1997</i>) .												
Oriel Reserve												
Oriel Reserve is a small bushland reserve [not scheduled SEPP 19] located between The Citadel and The Bulwark. The reserve is bordered by residential development.												
remnant bushland- elevated	tree group	10ag(i)/	Pu [dom.]	up to 40-50+	up to 5-6m	varies	regrowth	varies: 3-5	medium-low	restricted	T&BPO	significant rock outcrops/ formations &

steep slope/ rock outcrops adjoining rear bdy. to Nos.17 & 19 The Citadel/ Nos.2 & 4 The Bartizan & Nos.65-69 The Bulwark [incl. easement along eastern bdy. of reserve]	s/s outcrops s/s scarp remnant community		Fru [dom.] Ac [1] Bs [2] Ap/ Gf Abin [1] Epip/ Ac Ceg/ Cal Ka/ Al/ Er Abin	up to 15-20+ 50-60+ 20-40+ up to 5-10+ 30-40+ up to 5-10+ up to 5-10+ up to 5-10+ <5	up to 3-4m 8m 4-5m up to 4-6m 7m u[p to 3-5m up to 2-4m up to 2-4m up to 2m	up to 4-5m 7m 3-6m up to 3-4m 3m up to 2m varies varies up to 1m	good/ lopped good good good poor good good good good/ regen.					scarp; highly disturbed/ fragmented; no remnant native canopy/ mesic shift; standing dead trees [stags]; remnant native community [incl. <i>Homalanthus</i> , <i>Breynia</i> , <i>Hypolepis</i> / <i>Microlaena</i> [dom.] <i>Calochlaena</i> , <i>Pteridium</i> , <i>Histiopteris</i> , <i>Dianella</i> , <i>Wahlenbergia</i> , <i>Imperata</i> , <i>Schoenus</i> , <i>Stephania</i> spp.]; Fru [dom.] group on rock outcrops/ 1X lopped; gen./local native overlays [<i>Euc.saligna</i> <i>Acacia elata</i>]; area under restoration planting/ regen. strategy [Epip/ Ac, Ceg/ Cal, Ka/ Al/ Er, Ap/Abin, <i>Acacia</i> <i>floribunda</i> , <i>Leptospermum</i> , <i>Grevillea</i> , <i>Hakea</i> spp.]/ likely planted (unknown provenance); controlled pile burn 2006 good regen.; <i>Cythea cooperi</i> - likely cultivated origin; weeds [<i>Ligustrum</i> , <i>Tradescantia</i> , <i>Ehrharta</i> spp.]; Green Tree Snake/ Eastern Water Dragons.
upper north-east scarp & rock pavement [incl. upper portion of easement/ eastern bdy. of reserve]		10ar(i)	Fru [1]	?100-150+	8m	22m	see notes	varies: 4-5 [mainly 5]	low			Fru [1]- on upper scarp/ adj. to upper rear bdy. No.4 The Bartizan/ massive, multi-trunked old growth spec./ lopped to base under o'head powerlines/ vigorous regrowth.
Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-5] (<i>Lehany & Walker for WCC, 1997</i>) .												
The High Tor - Residential Properties:												Survey Date: 22 Apr-26 Apr 2013
2 The High Tor: front garden/ adj. to driveway & north bdy.	two trees	10ag(i)	Ac [1]	80-100+	14m	15m	good	5	low	restricted	T&BPO	exotic garden/ new residence; Ac [1]/ north bdy.- multi-trunk (2) old growth spec.; Ac [1]/ south entry- damaged trunk/ vertical cavities & vigorous new growth; gen. native planting [incl. <i>Syzygium paniculatum</i>].
south courtyard [enclosed entry]			Ac [1]	80-100+	14m	12m	see notes					
For public verge listings adjacent to No.2 The High Tor refer to The High Tor - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
												Survey Date: 12 Dec-16 Dec 2011
3 The High Tor: front garden/ upper terrace	s/s outcrops two trees	10ag(i)	Fru [1] Ceg [1]	15-20+ 40-50+	4m 6m	6m 2m	good good	5	low	restricted	T&BPO	exotic terraced garden; significant s/s outcrops; Fru [1]- on rock outcrop; Ceg [1]- some pruning; no access.
												Survey Date: 22 Apr-26 Apr 2013
4 The High Tor: front garden/ upper terraces adj. to front bdy. & verge	tree group s/s outcrops	10ag(i)	Era [1] Fru [1] Ceg [1] Alsu [1]	80-100+ 50-60+ 10-15+ 60-80+	12m 12m 4m 3m	15m 12m 1m 4m	v.poor good good good	5	low	restricted	T&BPO	exotic garden/ large block; Era [1]/ v. poor- old growth multi-trunk (2) spec./ competition w.cultivated trees; <i>Alsu</i> [1]/ <i>Alectryon subcinereus</i> - adj. to upper

												bdy./ multi-stemmed likely cultivated; Pu regrowth; generic native planting (dom.) [<i>Corymbia citriodora</i> , <i>Toona</i> , <i>Syzygium</i> , <i>Lophostemon</i> spp.]; dom. weeds [<i>Cotoneaster</i> , <i>Asparagus</i> , <i>Olea</i> , <i>Senna</i> , <i>Hedychium</i> , <i>Bryophyllum</i> spp.]
rear garden/ terrace adj. to house			Era [1]	80-100+	9m	12m	v.poor					Era [1]/ v.poor- ext. crown die-back/ dead wood (95%); no access.
												Survey Date: 12 Dec-16 Dec 2011
7 The High Tor: front garden/ lower slope/ below pool deck	s/s outcrops single tree	10ag(i)	Epip [1]	80-100+	9m	7m	fair	5	low	restricted	T&BPO	exotic terraced garden; significant s/s outcrops; Epip [1]- old growth multi-trunk [2] spec./ ext. dead wood & past lopping/ remove <i>Hedera</i> sp. on trunk; Pu regrowth; dom. weeds [incl. <i>Ipomoea</i> , <i>Cinnamomum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> spp.]; no access.
13 The High Tor: rear garden/ upper level/ rock outcrops	s/s outcrops single tree	10ar(i)	Ac [1]	30-40+	9m	6m	good	5	low	restricted	adj.SEPP 19 /T&BPO	exotic terraced garden; significant s/s outcrops; no access onto property.
15 The High Tor: rear garden/ upper level/ rock outcrops	s/s outcrops single tree	10ar(i)	Ac [1]	15-20+	7m	5m	good	5	low	restricted	adj.SEPP 19 /T&BPO	exotic terraced garden; significant s/s outcrops & formations; Ac [1]- competition w.exotic <i>Pinus</i> sp./ group; no access onto property.
The High Tor - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 22 Apr-26 Apr 2013
<i>For road reserve embankment opposite No.2 The High Tor refer to Edinburgh Road [one-way section] - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
public verge: adj. to driveway/ front bdy. to No.2 The High Tor	two trees	10ag(i)	Epip [1] Era [1]	80-100+ 50-60+	12m 7m	15m 9m	good good	5	low	fragmented	T&BPO	mulched garden bed; Epip [1]- old growth spec./ some dead wood; Era [1]- some dead wood; generic native planting.
												Survey Date: 12 Dec-16 Dec 2011
road cutting adj. to front bdy. Nos. 9, 11, 13 & 15 The High Tor & 35A Linden Way [The High Tor frontage]	s/s cutting s/s outcrops	10ar(i)						varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s cutting & rock outcrops; varying level of disturbance; remnant native ferns [<i>Hypolepis</i> , <i>Pteris</i> spp.]; <i>Cyathea</i> / <i>Adiantum</i> spp.- cultivated origin; no remnant native canopy.
												Survey Date: 22 Apr-26 Apr 2013
road cutting/ scarp [road reserve]: cnr. The High Tor & Linden Way/ upper level/ rock outcrops [opp. 15 The High Tor]	tree group s/s outcrops s/s scarp remnant community	10ar(i)/ 10ag(i)	Ac [1] Ac [1] Ac [12+] Al [5+] Ac Be	80-100+ 50-60+ up to 40-50+ up to 30-40+ <5 up to 20-30+	7m 8m up to 4-6m up to 5m <0.5m 2m	10m 9m up to 2-5m up to 6m <0.5m 4m	fair good varies varies good/ regen. good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s cutting & rock outcrops; varying level of disturbance; significant remnant native tree group incl. old growth specs.; Ac [1]/ fair-ext. die-back/ dead wood & new growth; Ac [group]/ pruning for o'head power-lines; Al/

lower cutting/ adj. to Linden Way [road reserve/ opp. 40 & 42 Linden Way]												some dead trees [stags]; remnant natives [<i>Calochlaena</i> , <i>Pteridium</i> spp.]; mixed gen. & local native restoration [incl. <i>Ahis</i> / <i>Be</i> , <i>Dodonaea</i> , <i>Poa</i> spp./ unknown provenance]; <i>Acacia linifolia</i> / Pu regrowth; dom. weeds [incl. <i>Ficus</i> <i>pumila</i> , <i>Olea</i> , <i>Asparagus</i> , <i>Bryophyllum</i> , <i>Nephrolepis</i> spp.]/ herbicide treatment.
upper embankment/ rock outcrops [road reserve] adj. to bdy. No.23A Linden Way			Ac [1] Epip [1] Epip [2] Ac [1] Ceg/ Er Al [1] Ka [1]	50-60+ 60-80+ 60-80+ ?100-150+ up to 30-40+ 40-50+ 30-40+	7m 8m 12m 9m up to 5-6m 7m 2.5m	7m 9m 12m 12m up to 4m 9m 4m	fair fair good good varies good good					Ac [1] & Epip [1]/ fair- ext. dead wood/ remove <i>F. pumila</i> on Epip trunk; Epip [2] & Ac [1]/ good- multi-trunk specs./ incl. old growth; pruning for o'head power-lines; remnant natives assoc.w. rock outcrops [incl. <i>Acacia suaveolens</i> , <i>Crowea</i> , <i>Calochlaena</i> , <i>Pteridium</i> spp.]
public verge: adj. to No.6 The High Tor			Ac [1] Ac [1]	60-80+ 20-30+	10m 4m	12m 2m	good/ lopped good/ lopped					Pu regrowth; contiguous w. remnant community along lower bdy. to No.23A Linden Way [see listing]; dom. weeds [<i>Nephrolepis</i> , <i>Asparagus</i> , <i>Lantana</i> , <i>Senna</i> , <i>Olea</i> , <i>Pavonia</i> , <i>Bidens</i> spp.]; listings subject to bdy. survey.
For lower embankment scarp/ rock outcrops refer to 23A Linden Way - Residential Properties [contiguous listing].												
The Parapet - Residential Properties:											Survey Date: 25 Jan-29 Jan 2010	
3 The Parapet: front garden/ adj. to north-east bdy.	single tree	10ar(i)	Ac [1]	60-80+	10m	7m	see notes	5	low	isolated	T&BPO	exotic garden/ mulched; Ac [1]- ext. insect damage/ basal cavity; vigorous new growth; subject to bdy. survey.
12 The Parapet: front garden	tree group	10ar(i)	Cgu [1] Ceg [1] Gf [1]	15-20+ 15-20+ 15-20+	9m 2m 6m	3m 2m 3m	good fair good	5	low	restricted	T&BPO	Griffin residence/ Inter-war period; Cgu/ Ceg- possibly planted; cultivated generic natives [<i>Corymbia</i> / <i>Euc.</i> spp.]/ successive native overlays/ unknown provenance; Pu/ Gf regrowth.
rear terraced garden/ adj. to bdy. No.10 The Parapet			Epu [1] Gf [1]	20-30+ 15-20+	8m 7m	8m 5m	good good					Epu [1]- likely planted; no access.
18 The Parapet: rear garden/ lawn area	single tree	10ar(i)	Eha [1]	80-100+	9m	15m	good	5	low	fragmented	T&BPO	exotic garden; Eha[1]- outstanding old growth spec./ possibly much older; part of larger native tree group [see listing for No.11 The Rampart]/ some dead wood in crown; no access.
22 The Parapet: rear garden/ lawn area	single tree	10ar(i)	Eha [1]	40-50+	7m	6m	good	5	low	restricted	T&BPO	exotic garden; Eha [1]- some dead wood in crown; no access.
38 The Parapet: rear garden/ adj. to rear bdy. to right-of-way	single tree	10ar(i)	Epip [1]	15-20+	10m	8m	good	5	low	fragmented	T&BPO	exotic garden/ dom. weeds [incl. <i>Nephrolepis</i> , <i>Asparagus</i> spp.].
42 The Parapet: rear garden/	single tree	10ar(i)	Eha [1]	30-40+	9m	9m	good	5	low	restricted	T&BPO	exotic garden; Eha [1]- twin-trunk/

lawn area												some pruning; no access.
The Parapet - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 25 Jan-29 Jan 2010
<i>Note: Road reservation contains many examples of cultivated local natives of unknown provenance which are not included in this schedule.</i>												
<i>For island at intersection of The Parapet/ Edinburgh Road refer to Edinburgh Road - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
<i>For island at intersection of The Parapet/ The Postern refer to The Postern - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
public verge/ embankment: adj. to bdy. No.7 The Parapet	single tree	10ar(i)	Ac [1]	15-20+	8m	6m	good	5	low	isolated	T&BPO	Ac [1]- possibly planted; generic native planting [<i>Corymbia citriodora</i> (dom.)/ self-seeding]; Pu regrowth; no native g/covers evident; weeds.
public verge/ mulched beds: adj. to bdy. No.12 The Parapet		10ar(i)						5	low	restricted	T&BPO	cultivated gen. native trees [<i>Corymbia</i> dom.)/ self-seeding]; successive native overlays [<i>Grevillea</i> , <i>Isopogon</i> , <i>Dianella Themeda</i> , <i>Echinopogon</i> spp.]/ likely planted/ unknown provenance.
public verge/ mown grass: adj. to bdy. No.21 The Parapet	single tree	10ar(i)	Cgu [1]	?100-150+	12m	12m	good	5	low	isolated	T&BPO	Cgu [1]- outstanding old growth multi-trunk/ spec.; Pu regrowth; no native g/covers; also EhaX1- immature/ likely planted/ unknown provenance.
pedestrian right-of way/ adj. to rear bdy. No.28 The Parapet	single tree	10ar(i)	Er [1]	15-20+	5m	4m	see notes	5	low	isolated	T&BPO	Er [1]- damaged crown; possibly cultivated; dom. exotics/ weeds.
pedestrian right-of way/ rock outcrops adj. to rear bdy. No.42 The Parapet	two trees s/s outcrops	10ar(i)	Fru [1] Ac [1]	80-100+ 40-50+	10m 10m	16m 6m	good good	5	low	isolated	T&BPO	Fru [1]- old growth/ multi-trunk (3No.) spec./ possibly much older/ heavily pruned; significant s/s outcrops; native <i>Commelina</i> sp.; dom. weeds.
The Parapet - Public Reserves:												Survey Date: 14 Dec-18 Dec 2009
Corteille Reserve:												
Corteille Reserve is a small landscaped reserve located between The Parapet & Edinburgh Road. The reserve is bordered by residential development.												
public parkland [incl. tennis courts & pedestrian access]	tree group	10ar(i)	Pu [3] Gf [1]	30-50+ 15-20+	5-7m 5m	4-7m 3m	regrowth fair/ regrowth	5	low	isolated	T&BPO	highly modified reserve/ landscaping; gen. native planting [<i>Euc. botryoides</i> (16m HT)/ <i>E. saligna</i> , <i>Melaleuca</i> spp.]; recent local native planting [<i>Kunzea</i> , <i>Acacia</i> spp.]; no native regen.; weeds.
<i>Note: For further details of reserve's management history refer to Griffin Reserves Plan of Management - Inventory of Reserves [R-1] (Lehany & Walker for WCC, 1997).</i>												
												Survey Date: 25 Jan-29 Jan 2010
Lookout Reserve:												
Lookout Reserve is a small landscaped/ remnant bushland reserve [not scheduled SEPP 19] located between The Parapet & Sortie Port. The reserve is bordered by residential development.												
public parkland adj. to rear bdy. Nos. 2-14 The Parapet/ Nos. 2-14 Sortie Port & Nos.1-5 The Rampart	tree group s/s outcrops	10ar(i)	Pu/ Gf Ac/ Al Ka/ Er Fru	up to 20-30+ up to 15-20+ up to 15-20+ <5	up to 6-8m varies varies <1m	varies varies varies <0.5m	regrowth good good good/ regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	highly modified reserve/ landscaping; significant rock outcrops; gen. native planting (dom.) [<i>Corymbia citriodora</i> , <i>Euc. saligna</i> , <i>Melaleuca</i> spp.]; weeds/ mown grass; Ac/ Al/ Ka/ Er - possibly all restoration planting/ also <i>Banksia</i>

												<i>spinulosa</i> , <i>Callicoma</i> , <i>Cyathea</i> , <i>Bint</i> , <i>Dianella</i> , <i>Lomandra</i> spp./ unknown provenance; Pu/ Gf regrowth; native g/covers [<i>Microlaena</i> , <i>Adiantum</i> spp.].
upper reserve/ rock outcrops adj. to rear bdy. No.14 The Parapet			Gf [dom.] Mv [1] Ecap [1] Bint [1]	up to 20-30+ unknown 5-10+ 40-50+	up to 6-7m 3m 3m 9m	varies 1.5m 3m 5m	regrowth good good see notes					Mv [1]- <i>Myrsine variabilis</i> - remnant native understorey/possibly old growth; Ecap [1]- <i>Eucalyptus capitellata</i> - likely restoration planting; Bint [1]- damaged crown/ likely planted; native vines [incl. <i>Geitonoplesium</i> , <i>Eustrephus</i> sp.]; dom. weeds [incl. <i>Nephrolepis</i> sp.].
Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-2] (<i>Lehany & Walker for WCC, 1997</i>) .												
The Postern - Residential Properties:											Survey Date: 14 Dec-18 Dec 2009	
11 The Postern: front garden/ adj. to front bdy. & bdy. to No.9	single tree	10ar(i)	Gf [1]	20-30+	6m	8m	good	5	low	isolated	T&BPO	exotic garden/ dom. weeds [<i>Ochna</i> , <i>Ligustrum</i> spp.].
The Postern - Road Reserves, Drainage Easements & Public Pedestrian Linkages:											Survey Date: 14 Dec-18 Dec 2009	
Note: Road reservation contains many examples of cultivated local natives of unknown provenance which are not included in this schedule.												
road verge: adj. to Nos.2-4 The Postern/ cnr. Edinburgh Rd. to The Parapet intersection	tree group s/s outcrops	10ar(i)	Ac/ Al/ Eha Ceg/ Bs/ Ka Crho/ Ahis Pu	up to 5-10+ up to 5-10+ up to 5-10+ up to 30-40+	up to 3-6m up to 3-6m up to 3-6m up to 3-5m	varies varies varies varies	varies good good good/ regrowth	5	low	isolated	T&BPO	highly disturbed/ modified community; likely all restoration planting (unknown provenance); local/ gen. natives [incl. <i>Euc. botryoides</i> , <i>Angophora hispida</i> , <i>Banksia spinulosa</i> , <i>Callitris</i> , <i>Dianella</i> , <i>Allocasuarina</i> , <i>Dodonaea</i> , <i>Acacia</i> spp. <i>Cymbopogon refractus</i>]; weeds.
island in roadway intersection: The Postern/ The Parapet	tree group s/s outcrops remnant community	10ar(i)	Eha [1] Eha [1] Ac [1] Be [1] Ac/ Epip Cal/ Er Pu/ Gf	80-100+ <5 15-20+ 20-30+ up to 10-15+ up to 10-15+ <5	9m 4m 7m 6m up to 3-4m up to 3-4m up to 2m	18m 1.5m 9m 8m varies up to 1-2m up to 1.5m	fair fair good good good good fair/ good	varies: 4-5 [mainly 5]	low	isolated	T&BPO	roadway island w. raised s/s edging & terracing; [Inter-war period/ Griffin designed- cultural heritage element]; highly disturbed/ modified community; significant s/s outcrops; Eha [1]- old growth spec./ext. dead wood/ sparse canopy & large basal cavity; Eha [1]/ immature- possibly seedling/ regen.; Ac/ Epip/ Be/ Cal/ Er- likely cultivated; restoration planting overlay (unknown provenance); mixed generic & local natives [incl. <i>Leptospermum</i> , <i>Banksia</i> , <i>Callicoma</i> , <i>Zieria</i> , <i>Dianella</i> spp./ as above]; mulched/ minimal weeds.
Note: For further details of road island management history refer to <i>Griffin Reserves Plan of Management - Inventory of Road Islands</i> [L-9] (<i>Lehany & Walker for WCC, 1997</i>) .												
island in roadway intersection: The Postern/ The Rampart	s/s outcrops remnant community	10ar(i)	Gf Ka	<5 <5	<0.5m <1.5m	<0.5m <1.5m	good/ regen. good/ regen.	varies: 4-5 [mainly 5]	low	isolated	T&BPO	roadway island w. raised s/s edging & terracing; [Inter-war period/ Griffin-designed/ see above]; significant rock outcrops; cultivated gen. natives [<i>Euc. robusta</i> , <i>Corymbia</i> , <i>Lophostemon</i> spp.]

												restoration planting [as above + <i>Hakea</i> , <i>Allocasuarina</i> , <i>Kunzea</i> , <i>Pultenaea</i> , <i>Hibbertia</i> , <i>Billardiera</i> spp.]; possibly some native regen./ minimal weeds.
Note: For further details of road island management history refer to <i>Griffin Reserves Plan of Management - Inventory of Road Islands</i> [L-10] (<i>Lehany & Walker for WCC, 1997</i>) .												
public verge/ mown grass adj. to front bdy. No.16 The Postern	single tree	10ar(i)	Ac [1]	60-80+	9m	9m	good	5	low	isolated	T&BPO	rockery in grass verge; Ac [1]- some pruning; exotics/ gen. native planting [incl. <i>Corymbia</i> sp.].
The Rampart - Residential Properties:												Survey Date: 19 Jul-23 Jul 2010
Note: Private property listings Nos. 7, 9, 11, 13, 15, 17 & 19 [completed 25-29 Jan 2010] follow listing for No.18 The Rampart.												
4 The Rampart: front garden/ s/s shelf & outcrops	s/s outcrops	10ar(i)/						5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	significant rock shelf/ outcrops; exotic garden; generic native planting [incl. <i>Corymbia citriodora</i>].
rear garden/ upper level lawn	tree group s/s scarp remnant community		Ac [1]	50-60+	8m	6m	v.poor	varies: 4-5 [mainly 5]		fragmented		Ac [1]-ext. die-back [80%]/ dead wood w. new epicormic growth.
lower slope to rear bdy. to reserve [below terrace wall]		10ag(i)	Bs [1] Pu [dom.]	30-40+ up to 30-40+	4m up to 6-8m	5m varies	good good/ regrowth			contiguous		significant s/s/ scarp; dom. weeds/ recent clearing; subject to bdy. survey; no access; remnant native g/covers [<i>Smilax</i> , <i>Entolasia</i> , <i>Calochlaena</i> spp.].
6 The Rampart: front garden/ upper level	tree group	10ar(i)/	Eha [2]	15-20+	8m	6m	v.poor	5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	exotic garden/ generic native planting; Eha X2- likely cultivated; also Ebo X 1 on verge [cultivated].
rear garden/ upper slope & terrace	s/s outcrops s/s scarp remnant community		Cgu [1] Er [1]	50-60+ 10-15+	7m 5m	7m 2m	fair good			fragmented		native planting/overlays [EsX1]/ recent weed removal & local native planting Cgu [1]- on rock shelf/ ext. dead wood & new epicormic growth.
lower slope to rear bdy. to reserve		10ag(i)	Er [7+] Pu [dom.] Ac [3] Epip [1] Bs [1]	up to 20-30+ up to 20-30+ 20-30+ 30-40+ 20-30+	up to 4-6m up to 4-6m 7-8m 14m 3m	1-3m varies 3-4m 10m 3m	regrowth regrowth good [2]/ fair [1] v.poor good	varies: 3-5	medium-low	contiguous		significant rock outcrops/ formations; subject to bdy. survey; some weeds [<i>Cinnamomum</i> , <i>Nephrolepis</i> spp.]; Epip [1]- ext. dead wood/ crown die- back [80%]; good native regen. [incl. <i>Elaeocarpus</i> [dom.], <i>Homalanthus</i> , <i>Cissus hypoglauca</i> , <i>Calochlaena</i> , <i>Polyscias</i> , <i>Pteridium</i> , <i>Smilax</i> , <i>Doodia</i> , <i>Entolasia</i> , <i>Lomandra</i> spp.]; no access.
8 The Rampart: rear garden/ lower slope to rear bdy. to reserve	tree group s/s outcrops s/s scarp remnant community	10ar(i)/ 10ag(i)	Ac [1] Ac [1] Bs [1] Ceg [4] Er [1] Pu [dom.]	50-60+ 60-80+ 30-40+ up to 20-30+ 20-30+ up to 20-30+	8m 8m 3m up to 4-6m 6m up to 4-6m	8m 8m 4m 1-2m 2m varies	good good good good good regrowth	varies: 3-5 [mainly 5]	medium-low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant rock outcrops/ scarp contig- uous/ No.6; subject to bdy. survey; dom. exotics/ weeds [incl. <i>Ligustrum</i> (dom.)/ <i>Nephrolepis</i> spp.]; some clear- ing; mesic regen. [<i>Cissus hypoglauca</i> (dom.)]; <i>Cyathea</i> sp./ cultivated origin.
10 The Rampart: front garden/ upper level adj. to bdy. No.12	tree group	10ar(i)/	Er [1]	15-20+	4m	2m	good	5	low	restricted	adj.SEPP 19 /T&BPO	exotic garden/ generic native planting. subject to bdy. survey.

rear garden/ lower level [below upper scarp]	s/s outcrops s/s scarp remnant community	10ag(i)	Ac [1] Ac [1] Er [1] Pu [dom.] Ac/ Ka	80-100+ 50-60+ 30-40+ up to 20-30+ <5	9m 9m 7m up to 4-5m <1m	8m 6m 3m varies <1m	fair good good regrowth good	varies: 4-5 [mainly 5]		fragmented	SREP 23	significant rock outcrops/ scarps X2; Ac [1]- old growth spec. on rock shelf/ ext. dead wood/ decline; mixed gen. natives [Ebo X1, <i>Cyathea/ Dicksonia</i> spp.]; natives [incl. <i>Cissus hypoglauca</i> , <i>Gahnia</i> sp.]; dom. weeds [<i>Erythrina</i> , <i>Ligustrum</i> , <i>Senna</i> , <i>Nephrolepis</i> spp.]; local native planting [Ka/ Ac, <i>Acacia</i> , <i>Dianella</i> spp.].
lower scarp [rock shelf]/ rear bdy. to reserve			Ceg [1] Er [1] Er [3]	30-40+ 15-20+ up to 5-10+	4m 4m up to 4m	2m 3m varies	good good good	varies: 2-5	high-low			remnant understorey/ high biodiversity [<i>Epacris longiflora</i> , <i>Acacia terminalis/</i> <i>A. suaveolens</i> , <i>Histiopteris</i> , <i>Dodonaea</i> <i>Gleichenia</i> , <i>Bauera</i> , <i>Smilax</i> , <i>Polyscias</i> , <i>Lomandra</i> , <i>Dianella</i> , <i>Entolasia</i> spp.].
12 The Rampart: front garden/ upper level	tree group s/s outcrops	10ar(i)/	Ac [1] Ac [1]	60-80+ 20-30+	6m 7m	5m 6m	good good	5	low	fragmented	adj.SEPP 19 /T&BPO	exotic garden; significant rock outcrops & scarps X2; Ac [1]- some dead wood.
rear garden/ upper scarp level rock shelf & mid-terrace level	s/s scarp	10ag(i)	Ac [1] Ac [1]	80-100+ ?100-150+	8m 8m	15m 16m	good good	varies: 4-5 [mainly 5]			SREP 23	Ac X2- old growth specimens [incl. highly sculptural spec./ 900mm DBH on lower terrace]; part of significant remnant tree [Ac] group; no access.
lower level/ top of scarp to rear bdy. to reserve [adj. to bdy. to No.10]	remnant community		Ac [1] Ac [1] Al [1] Er [1] Pu [dom.]	80-100+ 50-60+ 20-30+ 10-15+ up to 20-30+	10m 7m 3m 4m up to 4-5m	15m 7m 4m 2m varies	good fair good good regrowth	varies: 3-5 [mainly 5]	medium-low	contiguous		Ac [1]-old growth spec.; Ac [1]/ fair- damaged crown/ dead wood; dom. exotics/ weeds [<i>Lantana</i> , <i>Nephrolepis</i> , <i>Ligustrum</i> , <i>Senna</i> spp.]; natives [incl. <i>Homalanthus</i> , <i>Dianella</i> , <i>Adiantum</i> , <i>Smilax</i> spp.]; <i>Cyathea</i> sp./ cultivated origin; no access to lower bdy.
14 The Rampart: rear garden/ upper scarp level	tree group s/s outcrops s/s scarp	10ar(i)/ 10ag(i)	Ac [1] Ac [1] Er [1]	60-80+ 20-30+ 15-20+	9m 7m 5m	12m 3m 3m	see notes good good	varies: 4-5 [mainly 5]	low	contiguous	adj.SEPP 19 /T&BPO	exotic garden; significant rock outcrops & scarp; no access; subject to bdy. survey; significant remnant native tree [Ac]group; Ac [1]/notes- cavity; natives [incl. <i>Elaeocarpus</i> , <i>Pteridium</i> spp.];
mid-lower scarp level to rear bdy. to reserve	remnant community		Ac [2] Ac [3] Pu [dom.]	60-80+ 40-60+ up to 40-50+	12-14m 9-14m up to 7-9m	10-12m 6-12m varies	good good regrowth				SREP 23	Bs X1- old growth spec./ dead; dom. weeds [<i>Nephrolepis</i> , <i>Acetosa</i> spp.].
18 The Rampart: rear garden/ upper scarp level	tree group s/s outcrops s/s scarp	10ar(i)/ 10ag(i)	As [2] Pu [dom.]	5-10+ up to 30-40+	<3m up to 6-8m	<1m varies	good regrowth	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO	significant rock outcrops/ scarp; highly modified/ disturbed; exotics/ weeds; As [2]- likely planted.
lower steep slope [below scarp]			Ac [1] Ac/ Cea	60-80+ 5-10+	9m <2m	9m <1m	v.poor good				SREP 23	Ac [1]- remnant spec./ ext. crown die- back [60%]/ dead wood; gen. native planting [incl. <i>Ficus coronata</i> , <i>Cyathea</i> , <i>Casuarina</i> , <i>Syzygium</i> , <i>Brachychiton</i> , <i>Livistona</i> spp.]; also mixed local native

												planting/ unknown provenance [incl. <i>Ac/ Cea, Bint/ Be, Acacia</i> spp.].
												Survey Date: 25 Jan-29 Jan 2010
7 The Rampart: rear garden/ lower level courtyard	two trees s/s scarp s/s outcrops	10ar(i)/ 10ag(i)	Eha [1] Eha [1]	80-100+ 60-80+	9m 9m	12m 10m	good good	5	low	restricted	T&BPO	significant s/s scarp & rock outcrops; exotic garden; Eha [1]- old growth/ multi-trunk spec.; gen. native planting [incl. <i>Lophostemon</i> sp.]; dom. weeds.
9 The Rampart: rear garden/ upper level adj. to pedestrian right-of-way	tree group s/s scarp s/s outcrops	10ar(i)	Eha [1] Eha [1] Eha [1] Er [1] Be [1]	60-80+ 15-20+ <5 5-10+ 20-30+	7m 7m 4m 6m 4m	9m 3m 1m 3m 6m	good fair good good fair	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	significant s/s scarp & rock outcrops; exotic garden/ mulched; gen. native planting [Bint]/ Be [1]- likely planted; Pu regrowth; natives [<i>Dianella</i> sp.]; no access onto property.
11 The Rampart: rear garden/ upper level adj. to pedestrian right-of-way adj. to bdy. No.13	tree group s/s scarp s/s outcrops	10ar(i)	Cgu [1] Cgu [1] Eha [1] Eha [1] Eha [1] Bint [5] Eha/ Er	60-80+ 15-20+ 15-20+ 60-80+ 20-30+ up to 10-15+ <5	8m 7m 7m 8m 6m up to 7m <0.5m	6m 3m 5m 12m 5m varies <0.5m	good good good good good good good/ regen.	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; significant s/s scarp & rock outcrops; significant remnant native tree group; Cgu [1]/ older multi- trunk (4) spec.; Eha [1]/ older- some dead wood, insect damage & cavity; good native regen. [incl. <i>Elaeocarpus</i> , <i>Acacia</i> , <i>Dianella</i> spp.]; Pu regrowth; Bint [5]- self-sown/ likely cultivated origin; also gen. native planting [<i>Euc.</i> <i>botryoides</i> , <i>Hakea</i> spp.]; dom. weeds [incl. <i>Cinnamomum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> spp.]; no access.
13 The Rampart: rear garden/ scarp & rock outcrops	s/s scarp s/s outcrops	10ar(i)						5	low	restricted	T&BPO	exotic garden; significant s/s scarp & rock outcrops; Ceg X1- likely planted; no access onto property.
15 The Rampart: rear garden/ upper level adj. to bdy. No.17 & steps	single tree s/s scarp s/s outcrops	10ar(i)	Cgu [1]	50-60+	8m	10m	good	5	low	restricted	T&BPO	significant s/s scarp & rock outcrops; terraced exotic garden; no access.
17 The Rampart: rear garden/ upper level	two trees s/s scarp s/s outcrops	10ar(i)	Eha [1] Fru [1]	30-40+ unknown	9m 0.5m	7m 1m	good good/ lopped	5	low	restricted	T&BPO	significant s/s scarp & rock outcrops; exotic garden/ weeds; Eha [1]- some dead wood; Fru [1]- heavily pruned/ regrowth; no access onto property.
19 The Rampart: rear garden/ upper scarp/ slope & rock outcrops	tree group s/s scarp s/s outcrops remnant community	10ar(i)	Eha [1] Er [1] Ac [1] Al [1]	40-50+ unknown unknown <5	7m <0.5m <0.5m 1.5m	9m <0.5m <0.5m 1.5m	good lopped lopped good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s scarp & rock outcrops; Eha[1]- some dead wood; ext.clearing/ lopping native trees; remnant native g/covers & ferns [incl. <i>Calochlaena</i> , <i>Hypolepis</i> , <i>Gleichenia</i> (dom.) spp.]; Pu regrowth; gen. native planting [Bint]/ <i>Cissus antarctica</i> - likely cultivated; dom. weeds [incl. <i>Nephrolepis</i> (dom.)

												Asparagus, Anredera, Lonicera spp.].
												Survey Date: 19 Jul-23 Jul 2010
20 The Rampart: rear garden/ lower scarp level/ overhang [adj. to timber decking]	tree group s/s outcrops s/s scarp remnant community	10ar(i)/ 10ag(i)	Epip [1] Pu [dom.] As [2]	15-20+ up to 20-30+ 15-20+	9m up to 4-6m 4-5m	4m varies 3m	good regrowth good	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant rock outcrops/ scarp & overhang [contiguous w. Nos.22 & 24- see listings]; subject to bdy. survey; native ferns [<i>Todea</i> , <i>Gleichenia</i> , <i>Adiantum</i> spp./rock overhang]; As [2]- likely planted; <i>Cyathea</i> sp./ cultivated origin; dom. exotics/ weeds [incl. <i>Lantana</i> , <i>Nephrolepis</i> spp.]; no access.
22 The Rampart: rear garden/ lower scarp level/ overhang adj. to bdy. to reserve	tree group s/s outcrops s/s scarp remnant community	10ar(i)/ 10ag(i)	Epip [1] Ceg [1] Pu [dom.]	80-100+ 80-100+ up to 40-50+	16m 9m up to 6-8m	16m 6m varies	good good regrowth	varies: 3-5	medium-low	contiguous	adj.SEPP 19 /T&BPO SREP 23	significant rock outcrops/ scarp & overhang [contiguous w. Nos.20 & 24- see listings]; subject to bdy.survey; Epip[1] old growth spec.; Ceg [1]- multi-stem (2No.) old growth spec.; significant remnant group of native ferns assoc.w. rock overhang [<i>Todea barbara</i> (dom.), <i>Calochlaena</i> , <i>Blechnum</i> (2 spp.), <i>Adiantum</i> , <i>Gleichenia</i> spp.]; <i>Cyathea</i> sp./ cultivated origin; dom. weeds [incl. <i>Cinnamomum</i> , <i>Ligustrum</i> , <i>Asparagus</i> , <i>Lantana</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.]; no access to lower scarp/ bdy. to reserve.
												Survey Date: 8 Feb-12 Feb 2010
24 The Rampart: rear garden/ upper terraced slope to steep gully [adj. to drainage reserve]	s/s scarp s/s outcrops tree group remnant community	10ag(i)/ 10ag(iii)	Epip [1]	80-100+	14m	10m	good	varies: 2-5	high-low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant s/s scarp & rock outcrops; steep gully adj. to creek-line [drainage reserve -see listing]; exotic terraced garden; Epip [1]- old growth spec. on rock outcrop/ bees nest; gen. natives.
lower terraced slope & gully below scarp/ overhang			Pu Cal Cal	up to 60-80+ up to 40-50+ <5	up to 8-10m up to 7m <0.5m	varies varies <0.5m	good/ regrowth good/ regrowth good/ regen.			contiguous		significant rock shelter/ large overhang contiguous w.Nos.22 & 20(see listings) [owner discussed Aboriginal heritage/ anecdotal- currently not recorded]; native ferns (dom.)/ <i>Todea barbara</i> - significant large colony assoc.w.scarp/ overhang; also <i>Gleichenia</i> , <i>Adiantum</i> , <i>Calochlaena</i> , <i>Blechnum</i> , <i>Pteris</i> spp.]; <i>Cyathea cooperi</i> - significant (dom.) sub-canopy group [28+ No./ 10-12m HT]/ incl. old specs./ likely cultivated origin (naturalised); dom. weeds [incl.
lower gully/ bdy. to Watergate Reserve			Cgu [1] Ac [1]	30-40+ 30-40+	10m 12m	3m 5m	fair good					

												<i>Cinnamomum, Ligustrum</i> spp.]; owner identified lower bdy. extension into reserve/ listings subject to bdy. survey.
26 The Rampart: rear garden/ lawn area on upper scarp	single tree s/s scarp s/s outcrops	10ar(i)	Ac [1]	50-60+	8m	7m	good	5	low	contiguous	adj.SEPP 19 /T&BPO	exotic garden/ lawn; Ac[1]- some dead wood; significant s/s scarp & outcrops along rear bdy. to reserve/ subject to bdy. survey; also gen. native planting.
27 The Rampart: front garden/ adj. to bdy. No.29	s/s outcrops tree group remnant community	10ag(i)	Cgu [1] Er [3]	80-100+ 5-10+	9m up to 6-7m	12m varies	good good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s outcrops; exotic garden/ terraced slope; Cgu [1]- old growth spec. on rock outcrop; remnant native ferns [<i>Calochlaena, Histiopteris</i> spp.]; <i>Cyathea</i> sp./ cultivated origin; Er [3]- likely planted; dom. Weeds.
29 The Rampart: front garden/ adj. to upper driveway/ steps	tree group s/s scarp s/s outcrops	10ag(i)/ 10ar(i)	Eha [1]	40-50+	7m	10m	fair	5	low	restricted	T&BPO	exotic garden/ recent building works; significant s/s scarp & rock outcrops; Eha [1]- sparse canopy/ dead wood;
rear garden/ upper scarp adj. to reserve bdy. [west bdy.] & top of scarp adj. to bdy. No.31			Cgu [1]	80-100+	9m	9m	good			fragmented		Cgu [1]- old growth/ twin-trunk spec. on reserve bdy.; Cgu [1]- on scarp; dom. weeds [incl. <i>Nephrolepis</i> sp.].
			Cgu [1]	30-40+	8m	8m	good					
31 The Rampart: front garden/ adj. to bdy. No.29	single tree s/s outcrops	10ag(i)	Eha [1]	30-40+	8m	8m	poor	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic terraced garden; significant s/s outcrops; Eha [1]- crown die-back/ insect damage, cavity & dead wood; native ferns [incl. <i>Calochlaena/ Todea</i> spp.]; <i>Cyathea</i> sp./ cultivated origin; Pu regrowth.
Survey Date: 8 Feb-12 Feb 2010												
33 The Rampart: front garden/ rock outcrops	two trees s/s outcrops s/s scarp	10ag(i)	Ac [1] Ac [1]	30-40+ 30-40+	14m 12m	6m 5m	good fair	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; significant s/s outcrops & rock formations; Ac [1]/good- adj. to bdy. No.35; Ac [1]/ fair- competition w. <i>Liquidambar</i> sp.; Ac X2- possibly planted; Pu regrowth; native ferns [incl. <i>Calochlaena, Histiopteris</i> spp.]; dom. weeds [incl. <i>Cinnamomum</i> spp.].
36 The Rampart: rear garden/ lawn area on upper scarp	single tree s/s scarp s/s outcrops	10ar(i)	Ceg [1]	60-80+	6m	4m	good	5	low	fragmented	adj.SEPP 19 /T&BPO	significant s/s scarp & rock outcrops; exotic garden; Ceg [1]- adj. to reserve bdy./ possibly planted.
38 The Rampart: rear garden/ terraced steep slope & rock outcrops adj. to reserve bdy. [Keep Reserve]	s/s scarp s/s outcrops tree group remnant community	10ag(i)/ 10ag(iii)	Ac [1] Ac [1] Ceg [1] Gf [2] Ac [1] Ceg [dom.]	?100-150+ 80-100+ 80-100+ 40-60+ 60-80+ up to 40-50+	16m 22m 9m 9-10m 16m up to 7-8m	10m 10m 6m 6-8m 12m varies	fair good good good good good	varies: 2-3	high-medium	contiguous	adj.SEPP 19 /T&BPO	significant s/s scarp & rock outcrops; owner confirmed bush regen. strategy/ ext. local native planting; Ac [1]/ fair-multi-trunk (3No.) old growth spec.; Ac[1]/ Ceg[1]- old growth specs./ Ceg multi-stemmed (4No.) possibly much

			Cal/ Cea/ Er Ac/ Bs	<5 <5	up to 2m up to 3m	up to 1m up to 2m	good good					older; native understorey [incl. <i>Banksia spinulosa</i> , <i>Calochlaena</i> , <i>Adiantum</i> (3X spp.), <i>Stephania</i> , <i>Parsonsia</i> , <i>Smilax</i> , <i>Entolasia</i> spp.]; also generic native planting; Brush Turkey (<i>Alectura lathamii</i>) - pair/ recent nesting on site.
40 The Rampart: front garden/ rock outcrops/ upper level	s/s outcrops s/s scarp	10ar(i)	Cal [1] Ac [1]	unknown 5-10+	2m 6m	2m 3m	regrowth good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	terraced exotic garden; Cal [1]- assoc. w. significant s/s outcrops; Ac[1]- likely planted; recent building works; significant s/s scarp.
rear garden/ scarp & rock outcrops												
42 The Rampart: rear garden/ rock outcrops/ adj. to rock shelf [Keep Reserve]	tree group s/s scarp s/s outcrops	10ar(i)	Cgu [1] Ac [1] Gf [1] Cal [1]	80-100+ 60-80+ 15-20+ unknown	12m 12m 5m 2m	14m 12m 5m 3m	good good good good/ regrowth	varies: 4-5 [mainly 5]	low	contiguous	adj.SEPP 19 /T&BPO	significant s/s scarp & outcrops adj. to rock shelf [reserve]; Cgu[1]- old growth spec./ some storm damage; natives [<i>Adiantum</i> , <i>Pteris</i> , <i>Sellaginella</i> spp.]; Pu regrowth; dom. weeds [incl. <i>Olea</i> , <i>Ligustrum</i> , <i>Cinnamomum</i> , <i>Morus</i> , <i>Ochna</i> , <i>Lonicera</i> spp.]; subject to bdy. survey; current building works.
44 The Rampart: front garden	tree group	10ar(i)	Ac/ Eha Al/ Ahis	up to 10-15+ up to 10-15+	up to 6-7m up to 4-6m	varies varies	good good	5	low	restricted	T&BPO	mulched beds; likely all restoration planting/ incl. <i>Acacia</i> , <i>Banksia</i> spp.].
44A The Rampart: rear garden/ adj. to rock shelf/ bushland [Keep Reserve]	tree group s/s scarp s/s outcrops	10ar(i)	Ac [1] Ac [2]	60-80+ 30-40+	12m 9-10m	14m 5-6m	good good	varies: 4-5 [mainly 5]	low	contiguous	adj.SEPP 19 /T&BPO	significant s/s scarp & outcrops adj. to rock shelf [reserve]; Ac (group)/ part of larger tree group [see above listing + Epip X1 in adj. reserve]/ recovering after controlled broad area burn 2005; remnant natives [incl. <i>Adiantum</i> sp.]; also cultivated natives.
48 The Rampart: front garden/ adj. to front wall & residence	s/s outcrops	10ar(i)	Fru [1]	40-50+	8m	7m	good	5	low	restricted	T&BPO	exotic garden; no access.
The Rampart - Road Reserves, Drainage Easements & Public Pedestrian Linkages:											Survey Date: 25 Jan-29 Jan 2010	
Note: Road reservation contains many examples of cultivated local natives of unknown provenance which are not included in this schedule.												
For pedestrian right-of-way linking The Parapet & The Rampart refer to The Parapet - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
public verge/ rock outcrops: adj. to bdy. No.1 The Rampart	single tree s/s outcrops	10ar(i)	Eha [1] Ceg/ Bs	80-100+ up to 10-15+	8m 2-3m	15m 2-3m	good see notes	5	low	restricted	T&BPO	significant rock outcrops; Eha [1]-likely single tree/ old growth multi-trunk (3) spec./ pruning for o'head power-lines; no remnant native g/covers; generic native planting/restoration w. local spp. [incl. <i>Banksia</i> , <i>Ceratopetalum</i> , <i>Hakea</i> , <i>Xanthorrhoea</i> spp.]; owner confirmed planting/ restoration & bdy. to verge.
											Survey Date: 8 Mar-12 Mar 2010	
public verge/ rock shelf &	s/s outcrops	10ar(i)	Ka [dom.]	up to 10-15+	up to 2-4m	varies	good	varies: 3-5	medium-low	restricted	T&BPO	significant rock outcrops/shelf & cutting

road cutting: adj. to bdy. No.2 The Rampart [opp. central island]	s/s cutting remnant community		Gf [1] Ka Be [1]	10-15+ <5 10-15+	3m up to 1m 3m	2m up to 1m 3m	good good/ regen. good					contiguous w.rock shelf adj. No.1 Sortie Port (see listing); possibly some remnant native g/covers [<i>Gleichenia</i> , <i>Dianella</i> , <i>Wahlenbergia</i> spp.]; generic/ local native mixed planting (unknown provenance) [incl. <i>Banksia spinulosa</i> var. <i>collina</i> (not local), <i>Callistemon</i> <i>citrinus</i> / <i>C. linearis</i> , Bint, Be, Bs, Ceg, Er]; <i>Cyathea</i> sp.- cultivated origin; varying weeds/ dom.[<i>Nephrolepis</i> sp.].
mown grass verge over rock outcrops			Ceg/ Bs Er/ Be	up to 10-15+ up to 10-15+	up to 2.5m up to 2.5m	varies varies	good good	varies: 4-5 [mainly 5]	low			
island in roadway intersection: The Rampart/ The Redoubt rock outcrops	s/s outcrops remnant community	10ar(i)	Ka Be [dom.] Ahis	up to 10-15+ up to 15-20+ up to 10-15+	up to 2m up to 2-3m up to 1.5m	varies up to 3-6m varies	good good good/ lopped	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops; mulched beds/ highly modified; possibly some remnant natives/ regen. [<i>Kunzea</i> sp.]; generic/ local native mixed planting (unknown provenance) [incl. <i>Banksia</i> <i>spinulosa</i> var. <i>collina</i> (not local)/ <i>B.</i> <i>ericifolia</i> , <i>Angophora hispida</i> , <i>Dianella</i> , <i>Xanthorrhoea</i> , <i>Dodonaea</i> , <i>Lomandra</i> , <i>Hibbertia</i> spp.].
Note: For further details of road island management history refer to <i>Griffin Reserves Plan of Management - Inventory of Road Islands</i> [L-11] (<i>Lehany & Walker for WCC, 1997</i>) .												
												Survey Date: 25 Jan-29 Jan 2010
public verge/ rock outcrops: adj. to bdy. No.3 The Rampart	s/s outcrops remnant community	10ar(i)	Ahis [2] Ka	up to 10-15+ <5	2-3m <1m	2-3m <1m	see notes good	5	low	restricted	T&BPO	significant rock outcrops contiguous w. Nos.1 & 5 The Rampart; local native restoration [incl. <i>Angophora hispida</i> , <i>Persoonia pinifolia</i> , <i>Banksia spinulosa</i> / possibly <i>Kunzea</i> spp.].
												Survey Date: 8 Mar-12 Mar 2010
public verge/ rock outcrops: adj. to bdy. No.4 The Rampart & No.1 The Redoubt [opp. central island]	s/s outcrops remnant community	10ar(i)	Ka Be Ahis	up to 10-15+ up to 10-15+ up to 10-15+	up to 2m up to 2m 1.5m	up to 2m up to 2m 1.5m	good good good/ lopped	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops; mulched beds/ highly modified; possibly some remnant natives/ regen. [<i>Kunzea</i> , <i>Wahlenbergia</i> sp.]; gen./ local native mixed planting (unknown provenance) [Bint, Be, Ahis, <i>Banksia spinulosa</i> var. <i>collina</i> (not local), <i>Xanthorrhoea</i> , <i>Dodonaea</i> spp.].
												Survey Date: 25 Jan-29 Jan 2010
public verge/ rock outcrops: adj. to bdy. No.5 The Rampart	s/s outcrops remnant community	10ar(i)						varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops contiguous w. Nos.1-3 The Rampart; remnant native ferns [<i>Histiopteris</i> sp.]; dom. weeds.
public verge/ rock outcrops: adj. to bdy. No.19 The Rampart	tree group s/s outcrops	10ar(i)	Cgu [1] Er [3]	60-80+ up to 5-10+	8m 1-3m	10m varies	good good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops/ old terraced garden; Cgu [1]- remove <i>Hedera</i> sp. on trunk; Pu regrowth; remnant native understorey [incl. <i>Grevillea buxifolia</i> ,

												<i>Elaeocarpus, Entolasia</i> spp.]; dom. weeds/ exotics [<i>Asparagus</i> sp.].
												Survey Date: 19 Jul-23 Jul 2010
public verge/ mulched adj. to bdy. No.20 The Rampart	two trees	10ar(i)	Era [2]	15-20+	7-8m	5-7m	good	5	low	restricted	T&BPO	Era [2]- likely planted.
												Survey Date: 25 Jan-29 Jan 2010
public verge/ rock outcrops: adj. to bdy. No.21 The Rampart	single tree s/s outcrops	10ar(i)	Eha [1]	15-20+	6m	5m	fair	5	low	restricted	T&BPO	significant rock outcrops; no native g/covers; Eha [1]- likely planted; gen. native planting [Eucs.]
												Survey Date: 8 Feb-12 Feb 2010
drainage easement/ reserve: between Nos. 24 & 26 The Rampart/ upper level	s/s scarp s/s outcrops single tree	10ag(i)/ 10ag(iii)	Lep [1]	20-30+	5m	7m	good	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO	significant s/s scarp & rock outcrops; steep gully/ modified creek-line [upper level]; Lep [1]- likely cultivated origin; dom. exotics/ weeds; also gen. native planting [<i>Melaleuca</i> sp.]; grading to core bushland/ lower gully & reserve; listings subject to bdy. survey.
lower steep gully & natural creek-line adj. Watergate Reserve	core bushland community		Epip/ Cgu Ceg [1] Fru [1]	up to 80-100+ up to 50-60+ 15-20+	up to 18m up to 8m 2m	up to 22m up to 5m 6m	varies good good	varies: 1-5	high-low	contiguous		
												Survey Date: 25 Jan-29 Jan 2010
public verge/ rock outcrops: adj. to bdy. No.31 The Rampart	s/s outcrops single tree remnant community	10ag(i)	Ac [1]	20-30+	6m	6m	good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	significant rock outcrops; Pu regrowth; native ferns [<i>Todea, Gleichenia</i> spp.]; dom. weeds [incl. <i>Ligustrum, Lantana, Nephrolepis, Asparagus</i> spp.].
public verge: adj. to bdy. No.32 The Rampart	single tree	10ag(i)	Ac [1]	60-80+	8m	7m	good/ lopped	5	low	restricted	T&BPO	mown grass verge; Ac[1]- competition w. <i>Liquidambar</i> sp./ ext. pruning for o'head powerlines.
public verge/ rock outcrops: adj. to bdy. No.39 The Rampart	s/s outcrops	10ag(i)						5	low	restricted	T&BPO	significant rock outcrops; <i>Cyathea</i> sp./ cultivated origin; gen. native planting [<i>Casuarina glauca</i> / regrowth]; weeds.
public verge/ rock outcrops: adj. to bdy. No.41 The Rampart	s/s outcrops remnant community	10ag(i)						varies: 4-5 [mainly 5]	low	restricted	T&BPO	remnant native ferns [<i>Gleichenia</i> sp.]; significant rock outcrops; <i>Cyathea</i> sp./ cultivated origin; dom. weeds [incl. <i>Lantana, Nephrolepis</i> spp.].
The Rampart - Public Reserves:												Survey Date: 14 Dec-18 Dec 2009
Keep Reserve (Warners Bay Group) Keep Reserve is a major bushland reserve scheduled as SEPP 19: Bushland in Urban Areas (Public Open Space) in the Willoughby City Bushland Plan of Management (2000). Keep Reserve listings are divided into Areas A-B [refer to aerial photos] as follows:												
Area A(i): remnant bushland- slope adj. to The Outpost/ Warners Park bdy.	s/s outcrops remnant community	10ag(i)	Epip/ Ac Er/ Fru/ Gf Ac/ Epip Pu [dom.]	up to 80-100+ up to 5-10+ <5 up to 30-40+	up to 16-18m varies <1m up to 6-7m	varies varies <1m varies	varies regrowth good/ regen. regrowth	varies: 2-5	high-low	fragmented	SEPP 19/ T&BPO	varying level of disturbance/ highly fragmented [some old growth specs.] w. mixed generic native planting [incl. Es]; remnant native understorey; Ac/ Epip regen.; Pu/ Gf regrowth.

Note: Keep Reserve: Area A(i) is contiguous with bushland in Warners Park: Area A(iii) (Refer to Northbridge: The Outpost - Public Reserves: Warners Park)												
Area A(ii): remnant bushland- upper north-west slope/ scarp & rock shelf adj. to Castlecrag Preschool & rear bdy. to Nos.42-44A The Rampart	s/s outcrops s/s scarp remnant community	10ar(i)	Epip/Ac/Cgu Pu/ Gf	up to 80-100+ up to 20-30+	up to 9-12m up to 6-7m	varies varies	varies regrowth	varies: 4-5 [mainly 5]	low			highly disturbed/ modified community; significant rock outcrops/ scarp & rock shelf; controlled broad area burn(2005) restoration planting; dom. exotics/ weeds [incl. <i>Cinnamomum</i> , <i>Ligustrum</i> , <i>Morus</i> , <i>Olea</i> , <i>Ochna</i> , <i>Asparagus</i> , <i>Lonicera</i> spp.].
Area B(i): core bushland- east of Griffin Track junction w. Sailors Bay Walk to creek-line & upper slope to The Rampart	core bushland community s/s outcrops	10ag(i)	Ac [dom.] Epip/ Cgu Ceg [dom.] Al/ Er/ Bs Pu [dom.] Cal	up to 80-100+ up to 80-100+ up to 80-100+ up to 20-40+ up to 20-30+ up to 20-40+	up to 16-18m up to 16-18m up to 7-8m up to 4-6m up to 5-7m up to 3-4m	up to 20m up to 20m up to 3-4m varies varies varies	varies varies good good good/ regrowth good	varies: 1-5	high-low	contiguous	SEPP 19/ T&BPO	varying level of disturbance/ weed invasion [lower slopes/ creek-line]; area under bush regen. strategy; grading to largely intact native canopy/ understorey on mid- upper slopes; significant rock outcrops/ scarps; native understorey [incl. <i>Ceratopetalum gummiferum</i> (dom.), <i>Calochlaena</i> , <i>Grevillea linearifolia</i> , <i>Acacia</i> , <i>Hypolepis</i> , <i>Oplismenus</i> , <i>Entolasia</i> , <i>Lomandra</i> , <i>Austrostipa</i> , <i>Smilax</i> , <i>Wahlenbergia</i> , <i>Parsonsia</i> , <i>Doodia</i> spp.]; weeds [incl. <i>Cinnamomum</i> / <i>Ligustrum</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.].
Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-10] (Lehany & Walker for WCC, 1997) .												
												Survey Date: 25 Jan-29 Jan 2010
Turret Reserve												
Turret Reserve is a small landscaped/ remnant bushland reserve [not scheduled SEPP 19] located between The Rampart & The Parapet. The reserve is bordered by residential development.												
public reserve between Nos. 29/ 31 & 33 The Rampart/ upper grassed slope [north]/ mulched beds adjoining pedestrian right-of-way	tree group s/s outcrops s/s scarp remnant community	10ar(i)/ 10ag(i)	Cgu [1] Cgu [4+] Cgu [3] Esi [1] Had [1]	80-100+ 60-80+ 20-40+ unknown 20-30+	9m 8-9m 8-10m 7m 6m	7m 8-12m 4-6m 12m 5m	good good good good/ regrowth fair	varies: 3-5 [mainly 5]	low	restricted	T&BPO	highly disturbed/ modified community; significant remnant native tree group/ Cgu (dom.); significant rock outcrops/ scarp; Cgu [1]- old growth specimen/ heavily pruned/ adj. to rear bdy. No.36 The Parapet; Cgu [4+]- possibly old growth group; dead Cgu X3; Esi [1]- fallen tree/ multi-stemmed epicormic growth [12+]; mown grass/ exotics & weeds [<i>Olea</i> , <i>Cotoneaster</i> , <i>Senna</i> , <i>Asparagus</i> , <i>Ehrharta</i> (dom.) spp.].
upper rock outcrops/ mulched beds [remnant bushland] in mown grass			Ecum [1] Cgu [2] Eha [1] Esi [1] Eha [1] Al/ Ka/ Er	760-80+ 50-60+ 40-50+ 15-20+ 5-10+ up to 10-20+	4m 5-6m 7m 7m 6m up to 2-3m	6m 5-6m 10m 5m 1.5m varies	fair poor see notes fair fair good					Ecum [1]- <i>Eucalyptus camfieldii</i> significant isolated specimen/ listed as Vulnerable (TSC Act/ EPBC Act) & ROTAP: 2VCi; coppicing & vigorous epicormic growth; Eha [1]- some dead wood/ cavity; dead Al X 1; remnant

												native understorey [incl. <i>Xanthorrhoea</i> , <i>Dodonaea</i> , <i>Lasiopetalum</i> , <i>Billardiera</i> , <i>Crowea</i> , <i>Davallia</i> , <i>Entolasia</i> spp.]; reduce edge to area ratio & promote regen./ restoration strategy; reserve not listed within SEPP 19 bushland.
lower scarp/ rock outcrops & mulched beds [remnant bushland] adj. grassed slope to verge [The Rampart]			Cal Ka [1] Ac [2] Fru [2] Cal/ Bs/ Ka Had/ Er/ Gf Ac [3]	unknown 30-40+ up to 10-15+ 10-15+ up to 5-10+ up to 5-10+ up to 5-10+	up to 5-6m 5m 6-7m 3m up to 2-3m up to 5-6m up to 2-6m	up to 7m 5m varies 2-3m varies varies varies	good poor good good good/ regen. good/ regen. good/ regen.					native g/covers & ferns [<i>Calochlaena</i> , <i>Histiopteris</i> , <i>Pteridium</i> , <i>Gleichenia</i> , <i>Adiantum</i> , <i>Pteris</i> , <i>Polyscias</i> spp.]; Pu regrowth; <i>Cyathea</i> sp./Bint - cultivated origin; dom. exotics/ weeds [<i>Erythrina</i> , <i>Lantana</i> , <i>Musa</i> , <i>Nephrolepis</i> spp.]; reserve controlled pile burn (2003).
Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-9] (Lehany & Walker for WCC, 1997) .												
The Redoubt - Residential Properties:												Survey Date: 8 Mar-12 Mar 2010
11 The Redoubt: rear garden/ rock pavement/ outcrops adj. to Casement Reserve	s/s outcrops remnant community	10ar(i)	Ka [dom.]	up to 5-10+	<1m	<2m	good/ regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops/ shelf adj. reserve; Pu regrowth; dom. exotics/ weeds.
The Redoubt - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 8 Mar-12 Mar 2010
<i>For island at intersection of Sortie Port/ The Redoubt/ The Rampart refer to The Rampart - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
<i>For pedestrian right-of-way linking to The Barbette refer to The Barbette - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
rock outcrops/ roadway cutting: adj. to No.11 The Redoubt	s/s outcrops s/s cutting	10ar(i)	Ka [1]	<5	<0.5m	<0.5m	regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops/ cutting; some native regen. [<i>Kunzea</i> sp.]; <i>Cyathea</i> sp./ cultivated origin; weeds.
central island in cul-de-sac: rock outcrops elevated above roadway	s/s outcrops remnant community	10ar(i)	Ka [1] Bs [1] Ahis [1] Had [7+] Ka [dom.] Ap [dom.]	30-40+ 30-40+ 20-30+ up to 20-30+ up to 10-15+ up to 10-15+	3m 3m 4m up to 3m up to 2m up to 4m	7m 5m 4m up to 3m varies varies	good good poor good good/ regen. good	varies: 2-3	high-medium	restricted	T&BPO	significant rock outcrops; significant rock pavement group/ possibly some modification [incl. restoration planting] remnant natives [<i>Kunzea ambigua</i> / <i>Acacia parramattensis</i> (co-doms.), <i>Angophora hispida</i> (possibly planted/ ext. dead wood), <i>Acacia suaveolens</i> , <i>Banksia serrata</i> , <i>Dianella</i> , <i>Lomandra</i> , <i>Themeda</i> , <i>Aristida</i> , <i>Eustrephus</i> spp.]; Pu regrowth; Bint- likely self-sown; minimal weeds [<i>Bryophyllum</i> sp.].
Note: For further details of road island management history refer to <i>Griffin Reserves Plan of Management - Inventory of Road Islands</i> [L-18] (Lehany & Walker for WCC, 1997) .												
The Redoubt - Public Reserves:												Survey Date: 2 Aug-6 Aug 2010
<i>For Watergate Reserve refer to The Barbette - Public Reserves.</i>												
Casement Reserve												
Casement Reserve is a small bushland reserve [not scheduled SEPP 19] located at the eastern end of The Redoubt. The reserve is bordered by residential development.												
remnant bushland- elevated rock shelf/ outcrops & slopes adj. east bdy. to Nos.9 & 11	tree group s/s outcrops s/s scarp	10ar(i)	Eha [1] Cgu [1] Esi [1]	80-100+ 80-100+ 60-80+	7m 8m 8m	12m 14m 10m	poor good good	varies: 2-5 [mainly 5]	high-low	restricted	T&BPO	significant rock outcrops/ formations & scarp; highly disturbed/ fragmented remnant community w. successive

The Redoubt & rear bdy. to Nos.10, 12 &14 The Bastion & Nos. 5, 7 &9 The Barbette	remnant community		Ac [1]	50-60+	7m	7m	good					generic & local native overlays/ recent restoration planting/ regen. strategy; significant remnant native tree group- Eha [1]-old growth spec./ext. die-back (50%)/ dead wood; Cgu [1]-old growth spec./some dead wood; Esi [1]- multi- stemmed spec.; Epu/ Abin- possibly cultivated; remnant natives [<i>Phebalium</i> <i>squamulosum</i> , <i>Acacia suaveolens</i> / <i>A.</i> <i>ulicifolia</i> , <i>Epacris longiflora</i> , <i>Woolisia</i> <i>pungens</i> , <i>Allocasuarina</i> , <i>Dodonaea</i> , <i>Dianella</i> , <i>Kunzea</i> , <i>Histiopteris</i> , <i>Glycine</i> <i>Plectranthus</i> spp; most remnant spp. represented by only a single specimen; <i>Pterostylis ophioglossa</i> - recent record; controlled pile burn conducted (2000); recommend local provenance/ regen. strategy using remnant spp.rather than restoration/ enhancement strategy; Eha/ Abin/ Bs/ Be/ Ka/ local planting/ regen.; <i>Acacia binervia</i> / <i>Acacia</i> spp., <i>Banksia spinulosa</i> , <i>Hakea sericea</i> - unknown provenance; ext. gen. native planting [incl. <i>Corymbia maculata</i> , mixed <i>Eucs. microcorys</i> / <i>E. robusta</i> / <i>E. botryoides</i> , <i>Casuarina</i> , <i>Grevillea</i> , <i>Podocarpus</i> , <i>Cupaniopsis</i> spp.]; dom. mown grass; exotics/ weeds [incl. <i>Ligustrum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Ehrharta</i> spp.]; Blue-tongue Lizard (<i>Tiliqua scincoides</i>) - v. common.
			Abin [4]	up to 20-30+	up to 4-6m	up to 12m	varies					
			Epu [1]	10-15+	7m	3m	good					
			Aba [1]	?20-30+	3m	1m	good					
			Al [1]	10-15+	3m	3m	good					
			Er [1]	10-15+	3m	1.5m	good					
			Ka [dom.]	up to 30-40+	up to 4m	up to 6m	varies					
			Pu [dom.]	up to 15-20+	up to 4-5m	varies	regrowth					
			Gf	<5	<0.5m	<0.5m	regen.					
			Ka/ Bs/ Be Eha/ Abin	up to 5-10+ up to 5-10+	up to 1.5m up to 2.5m	varies varies	see notes see notes					
Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves</i> [R-8] (Lehany & Walker for WCC, 1997) .												
The Scarp - Residential Properties: Survey Date: 25 Jul-29 Jul 2011												
1 The Scarp: front garden/ upper south-west bdy. to The Haven Amphitheatre	s/s outcrops s/s scarp tree group	10ag(i)/ 10ag(iii)	Fru [1]	60-80+	10m	15m	good	varies: 2-5	high-low	contiguous	adj.SEPP 19 /T&BPO SREP 23	significant s/s scarp & rock outcrops; listings subject to bdy. survey; current building works; Fru [1]- multi-stemmed spec.; Epip [1]- on bdy./ old growth spec. [Epip + Ac X2 within Fru canopy] Ac [1]- remove <i>Hedera</i> sp.; natives/ [incl. <i>Ceratopetalum</i> , <i>Allocasuarina</i> , <i>Elaeocarpus</i> , <i>Pteridium</i> , <i>Lomandra</i> , <i>Eustrephus</i> , <i>Stephania</i> spp.]; exotics/ weeds [incl. <i>Ligustrum</i> , <i>Asparagus</i> ,
			Ac [1]	60-80+	10m	16m	good					
			Ac [1]	30-40+	8m	2m	fair					
lower scarp	remnant community		Epip [1]	80-100+	14m	15m	good					
			Bs [1]	40-50+	6m	3m	good					
		Al/ Er/ Fru Al/ Ceg/ Er	up to 10-15+ <5	up to 2-4m up to 1.5m	varies <1m	good good/ regen.						

rear garden/ lower scarp adj. to house & deck			Ac [1] Al/ Ceg/ Er Pu/ Gf	?100-150+ up to 10-15+ up to 10-15+	16m up to 4-6m up to 4-6m	18m varies varies	good good good/ regrowth	varies: 1-3	high-medium			<i>Tradescantia</i> spp.].
rear garden [lower]/ steep slope, scarp & rock outcrops adj. to bdy. No.3 The Scarp & Castlehaven Reserve			Ac [1] Al [1] Fru [1]	80-100+ 50-60+ 20-30+	15m 12m 4m	15m 7m 8m	good good good/ lopped					Ac [1]- v. old growth/ multi-trunked sculptural spec. 700mm DBH; natives [<i>Asplenium flabellifolium</i> , <i>Gleichenia</i> , <i>Xanthorrhoea</i> , <i>Gahnia</i> , <i>Calochlaena</i> , <i>Smilax</i> spp.]; Pu regrowth; <i>Cyathea</i> sp.- cultivated origin; weeds [incl. <i>Lantana</i> , <i>Asparagus</i> spp.].
												Survey Date: 1 Aug-5 Aug 2011
2 The Scarp: front garden/ adj. to lower west bdy.	s/s outcrops s/s scarp	10ag(i)	Ac [1]	80-100+	15m	15m	good	5	low	fragmented	T&BPO	exotic terraced garden; Ac [1]- old growth spec.; Pu regrowth; no access.
rear garden/ upper north- west bdy. [adj. to No.50 The Bulwark]	tree group remnant community		Ac [1] Al [1]/ Er [1]	40-50+ 5-10+	9m 2-4m	8m 1-2m	good good/ regen.	varies: 4-5				significant s/s scarp & rock outcrops [rear bdy.]; remnant natives [incl. <i>Phebalium squamulosum</i> , <i>Lomandra</i> spp.]; dom. weeds [<i>Nephrolepis</i> sp.].
												Survey Date: 25 Jul-29 Jul 2011
3 The Scarp: front garden/ upper terrace	tree group	10ag(i)	Ac [1]	?100-150+	12m	15m	good	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO	exotic terraced garden; Ac [1]- v. old growth spec.; native <i>Lomandra</i> sp.;
lower terrace/ adj. to house			Ac [1] Ac [1] Bs [1] Gf [3]	50-60+ 60-80+ 60-80+ 5-10+	9m 14m 4m 2-3m	5m 12m 5m 1-2m	see notes good good good					Ac [1]/ see notes- damaged trunk/ ext. dead wood/ vigorous new growth; Bs [1]- some dead wood; gen. native planting.
on bdy. to No.5 The Scarp												
rear garden/ lower rear [east] bdy. adj. to bushland reserve [Castlehaven Reserve]	remnant community s/s outcrops s/s scarp		Al [dom.] Gf [1]	up to 5-10+ 10-15+	2-4m 2.5m	up to 4m 4m	lopped good/ lopped	varies: 3-5	medium-low	contiguous		listings subject to bdy. survey; natives [incl. <i>Pteridium</i> , <i>Imperata</i> sp.]; gen./ local native planting [incl. <i>Acmena</i> , <i>Banksia</i> , <i>Leptospermum</i> spp.].
lower south-west bdy. adj. to No.1 The Scarp/ rock outcrops & scarp			Ac [1] Ac [1] Al [dom.]	80-100+ 60-80+ up to 10-15+	18m 10m up to 4-6m	15m 6m up to 4m	good good good	varies: 1-3	high-medium			significant s/s scarp & rock outcrops; Ac [1]- old growth spec.; min. weeds; natives [<i>Polyscias</i> , <i>Pteridium</i> , <i>Smilax</i> spp.] assoc. w. rock outcrops.
												Survey Date: 1 Aug-5 Aug 2011
4 The Scarp: rear garden/ upper scarp & rock shelf	s/s outcrops s/s scarp single tree remnant community	10ar(i)	Fru [1] Ka	30-40+ <5	5m <1m	8m	good regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden; significant s/s scarp & rock outcrops; Fru [1]- on scarp face; Pu regrowth; dom. weeds [<i>Ligustrum</i> , <i>Lantana</i> , <i>Cotoneaster</i> , <i>Nephrolepis</i> , <i>Asparagus</i> spp.]; no access.
6 The Scarp: front [lower]	s/s outcrops	10ag(i)	Pu [dom.]	up to 20-30+	up to 6-8m	varies	regrowth	varies: 4-5	low	restricted	T&BPO	exotic terraced garden/ steep slope;

garden/ rock outcrops [adj. to roadway]	remnant community tree group							[mainly 5]					significant s/s outcrops; remnant native understorey/ adj. to roadway [incl. <i>Xanthorrhoea</i> , <i>Calochlaena</i> spp.]/ subject to bdy. survey.; Es [1]/ Ac [1]- some dead wood; Mv [1]/ <i>Myrsine variabilis</i> - lopped/ basal regrowth; other remnant natives [<i>Calochlaena</i> , <i>Dianella</i> , <i>Smilax</i> spp.]; generic native planting [incl. <i>Syzygium</i> , <i>Melaleuca</i> , <i>Cyathea</i> spp.]; dom. weeds [<i>Acetosa</i> , <i>Ligustrum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Tradescantia</i> , <i>Setaria</i> spp.].
upper terraces/ rock outcrops [adj. to house]		Esi [1]	50-60+	8m	8m	fair							
		Ac [1]	20-30+	10m	4m	fair							
		Ceg [1]	50-60+	4m	4m	good							
		Mv [1]	?unknown	0.5m	0.5m	good/ regrowth							
		Gf	<5	2m	1m	good/ regen.							
		Pu [dom.]	up to 20-30+	up to 7-8m	varies	regrowth							
												Survey Date: 22 Aug-26 Aug 2011	
8 The Scarp: front garden/ upper slope adj. to driveway [The Scarp frontage]	s/s outcrops s/s scarp remnant community single tree	10ag(i)	Ac [1]	60-80+	12m	12m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic garden/ steep slope; significant s/s scarp & rock outcrops; remnant natives [<i>Calochlaena</i> , <i>Smilax</i> spp.]; Pu regrowth; dom. weeds [incl. <i>Phyllostachys</i> , <i>Hedychium</i> , <i>Senna</i> , <i>Nephrolepis</i> , <i>Setaria</i> spp.].	
10 The Scarp: garden/ upper steep slope below scarp adj. to house undercroft [The Scarp frontage]	s/s outcrops s/s scarp single tree	10ag(i)	Ac [1]	80-100+	10m	14m	good	5	low	restricted	T&BPO	exotic garden/ steep slope; significant s/s scarp & rock outcrops; Ac [1]- old growth spec.; Pu regrowth; dom. weeds [incl. <i>Nephrolepis</i> sp.].	
11 The Scarp: rear garden/ below scarp/ steep gully	s/s scarp s/s outcrops	10ag(iii)	Ac [1] Cea [1]	50-60+ 15-20+	10m 6m	12m 7m	good good	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	house built to edge of scarp [upper]; significant s/s scarp, overhang & rock outcrops [incl. massive boulders] w. remnant natives [incl. <i>Todea barbara</i> (v. old specs.)/ <i>Adiantum hispidulum</i> , <i>Blechnum camfieldii</i> , <i>Calochlaena</i> , <i>Gleichenia</i> , <i>Pteridium</i> , <i>Homalanthus</i> , <i>Dodonaea</i> spp.]; gen. native planting [<i>Dicksonia</i> / <i>Cyathea</i> spp./ cult. origin]; dom. weeds [incl. <i>Acetosa</i> , <i>Ageratina</i> , <i>Parietaria</i> , <i>Nephrolepis</i> , <i>Hedychium</i> , <i>Cardiospermum</i> , <i>Tradescantia</i> spp.]; subject to bdy. survey; no access.	
steep slope to lower bdy. to Castlehaven Reserve	two trees remnant community												
<i>Note: Significant scarp/ overhang extends to adjoining property No.13 The Scarp.</i>													
13 The Scarp: rear garden/ below scarp/ steep gully boulders & creek-line	s/s scarp s/s outcrops tree group	10ag(iii)	Cea [1] Cea [2] Er [1]	15-20+ 20-30+ 15-20+	3m 5-8m 5m	4m 4-6m 3m	good good good	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	significant s/s scarp, ext. overhang & rock outcrops [incl. massive boulders] along creek-line; possible midden site/ Aboriginal archaeological heritage-site currently not recorded (NPWS)/ need further investigation; significant	
steep gully & creek-line to lower bdy. to reserve [Castlehaven Reserve]	remnant community		Cea [1] Cea [2] Pu [1]	20-30+ 10-15+ 50-60+	8m 4-6m 9m	2m 2-3m 12m	good good good/ regrowth						

												<i>Ceratopetalum apetalum</i> regrowth [Cea] group; native ferns assoc. w. scarp/ overhang [<i>Todea</i> , <i>Adiantum</i> , <i>Gleichenia</i> , <i>Pteridium</i> , <i>Calochlaena</i> , <i>Blechnum</i> , <i>Pteris</i> spp.]; dom. weeds [as in No.11]/ <i>Setaria</i> , <i>Tradescantia</i> , <i>Ligustrum</i> spp. (dom.) lower gully; subject to bdy. survey; no access.
15 The Scarp: rear garden/ upper terrace adj. to house/ bdy. to No.17 The Scarp	s/s scarp s/s outcrops tree group remnant community	10ag(iii)	Epip [1] Cea [1]	80-100+ 50-60+	16m 12m	16m 7m	poor good	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic garden; significant s/s scarp & rock outcrops; Epip [1]/poor-old growth spec./ ext. dead wood; Cea [1]- multi-stemmed [2] spec.; dom. weeds.
steep upper slope/ rock outcrops adj. to bdy. No.13			Cea [2] Cea [1]	?100-150+ ?100-150	16m 18m	8-12m 16m	good good					significant rock formations/ boulders; significant old growth group- Cea X3
lower slope to rear bdy. to Castlehaven Reserve			Epip [1] Sygl [1] Cea [1]	30-40+ 10-15+ 10-15+	12m 6m 7m	10m 5m 5m	fair good good					<i>Ceratopetalum apetalum</i> -all multi-trunked specimens [incl. massive 5+ stem 1400mm base spec./ possibly much older]; Epip [1]/ fair- some dead wood; Epip X2- stags/ standing dead trees; natives [<i>Blechnum cartilagineum</i> , <i>Calochlaena</i> sp./epiphytic <i>Platyserium</i> sp.]; weed thicket (dom.) [<i>Lantana</i> , <i>Alpinia</i> , <i>Setaria</i> , <i>Cardiospermum</i> , <i>Tradescantia</i> spp.].
For listing - No.16 The Scarp refer to The Bulwark - Residential Properties: 34A The Bulwark.												
17 The Scarp: rear garden/ steep slope/ lower level adj. to rear bdy. to reserve [Castlehaven Reserve]	s/s scarp s/s outcrops two trees remnant community	10ag(i)/ 10ag(iii)	Ac [1] Ac [1] Gf	80-100+ 30-40+ <5	12m 10m <1.5m	16m 8m <1m	see notes good good/ regen.	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic garden; significant s/s scarp & rock outcrops; Ac [1]/ see notes- adj. bdy. No.19/ old growth multi-trunked [2/ 1X dead] spec.; remnant natives [<i>Calochlaena</i> sp.]; weed thicket (dom.) [incl. <i>Lantana</i> , <i>Senna</i> , <i>Setaria</i> spp.]; subject to bdy. survey; no access.
18 The Scarp: front garden/ lower terrace/ embankment to roadway	s/s outcrops tree group remnant community	10ag(i)	Epip [1] Lep [5+] Be [2] Cal [1] Cgu [1]	15-20+ 5-10+ 5-10+ 10-15+ <5	9m up to 2-3m 3m 5m 2m	8m 1-2m 2-3m 3m 1m	good good good good good/ regen.	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; adj. easement/ subject to bdy. survey; significant s/s outcrops; fragmented/ modified community w. remnant natives [<i>Callicoma</i> , <i>Pteridium Hypolepis</i> , <i>Lomandra</i> spp.]; some native regen. [Cgu]; Pu regrowth; generic [<i>Euc. saligna</i>] & local native planting (unknown provenance) [incl. Lep [5+]/ Be [2], <i>Hakea teretifolia</i> , <i>Grevillea linearifolia</i> , <i>Acacia linifolia</i> ,

												<i>A. terminalis/ suaveolens, Dodonaea, Zieria</i> spp.] - all likely cultivated origin]; weeds [<i>Lonicera, Nephrolepis</i> spp.].
rear garden/ upper level [adj. to Merlon Reserve]			Ac [1]	5-10+	6m	2m	good	5		restricted		significant rock outcrops; Pu regrowth; no access.
<p><i>For Epip [1] boundary listing to pool refer to The Bulwark - Residential Properties: 34A The Bulwark.</i></p> <p><i>For Merlon Reserve [incl. easement between Nos.18 The Scarp & 34 The Bulwark] refer to The Bulwark - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i></p>												
												Survey Date: 5 Dec-9 Dec 2011
19 The Scarp: rear garden/ mid-terraces	s/s scarp s/s outcrops two trees	10ag(i)/ 10ag(iii)	Epip [1] Er [1] Ac [1]	40-50+ 5-10+ <5	12m 3m 1.5m	10m 1m 0.5m	see notes good good/ regen.	varies: 4-5 [mainly 5]	low	restricted	adj.SEPP 19 /T&BPO SREP 23	terraced exotic garden; significant s/s outcrops & rock formations; Epip [1]- on eastern bdy. No.23/ subject to bdy. survey/ ext.die-back/ new epicormic growth; also Epip X1- dead/ stag; natives [<i>Calochlaena</i> sp.]; <i>Cyathea</i> sp./ cultivated origin; some weeds/ recently cleared; no access.
23 The Scarp: rear garden/ below scarp [above pool/ spa deck]	s/s scarp s/s outcrops tree group	10ag(i)/ 10ag(iii)	Pu [dom.] Ac [1] Syl [1]	up to 40-50+ ?100-150+ 10-15+	up to 8m 16m 4m	varies 16m 4m	regrowth good good/ regen.	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic garden; significant s/s scarp, rock formations & overhang; decked undercroft area; Ac [1]- v. old growth . spec./ 1000mm DBH/ some dead wood; native ferns/ overhang [<i>Todea barbara</i> , <i>Blechnum cartilagineum</i> , <i>B. ambiguum</i> , <i>Histiopteris</i> , <i>Gleichenia</i> spp.]; <i>Cyathea</i> sp./ cultivated origin. natives [<i>Calochlaena</i> , <i>Smilax</i> spp.]; generic native planting [<i>Angophora floribunda</i> / <i>Eucs.</i> , <i>Leptospermum</i> , <i>Callistemon</i> spp.]; weeds [<i>Lantana</i> , <i>Cinnamomum</i> , <i>Ligustrum</i> , <i>Ochna</i> , <i>Tradescantia</i> , <i>Lonicera</i> spp.]; listings subject to boundary survey.
lower scarp/ slope [below pool deck]	remnant community		Ac [1] Ac [1] Gf [1] Gf [1]	50-60+ 60-80+ 20-30+ 50-60+	22m 18m 8m 9m	9m 15m 8m 12m	good good good/ regrowth good/ regrowth	varies: 3-5 [mainly 5]	medium-low	contiguous		
adj. to bdy. No.19			Cea [1] Cea	10-15+ up to 5-10+	5m up to 2.5m	4m varies	good good/ regen.					
steep lower slope adj. to rear bdy. to reserve [Castlehaven Reserve]			Ac [1]	60-80+	18m	12m	good					
on lower eastern bdy. to No.25 The Scarp/ creek-line												
25 The Scarp: rear garden/ upper slope/ steps adj. to house	s/s scarp s/s outcrops	10ag(iii)	Cea [1]	60-80+	12m	12m	good	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic garden; significant s/s scarp & rock outcrops; no access; significant remnant native tree group/ community spanning steep gully/ creek-line & upper slopes adj. bdy. to reserve; Cea X2/ multi-stemmed specs./ incl. old growth; natives [incl. <i>Calochlaena</i> , <i>Gleichenia</i> , <i>Blechnum</i> spp.]; <i>Cyathea</i> sp./ cultivated origin; highly modified/ dom. exotics/ weeds [incl. <i>Hedychium</i> ,
steep lower gully slope/ creek-line adj. to reserve [Castlehaven Reserve]	tree group remnant community		Cea [1] Pu [dom.] Syl	80-100+ up to 40-50+ up to 20-30+	16m up to 8-10m up to 6-7m	15m varies varies	good good/ regrowth good					

For Ac [1] on boundary to No.23 The Scarp - see above listing.												Ligustrum, Setaria, Tradescantia spp.]
upper slope [south-eastern boundary] adj. to Nos.27A-27B The Scarp & reserve [Castlehaven Reserve]		10ag(i)	Ac [1] Epip [1] Epip [1] Al/ Er/ Gf	20-30+ 80-100+ 80-100+ up to 10-15+	14m 16m 16m up to 4m	7m 18m 22m varies	good fair good good	varies: 2-5	high-low	contiguous		varying level of weed invasion [incl. Lantana, Nephrolepis, Lonicera spp.]/ good regen./ natives [incl. Schoenus melanostachys, Calochlaena, Smilax spp.]/ would respond to bush regen. strategy; Epip [1]/ fair-old growth spec./ crown die-back/ dead wood; Epip [1]/ good- old growth multi-trunk [2] spec.; all listings subject to boundary survey.
26 The Scarp: front garden/ lower embankment to roadway	tree group remnant community s/s scarp s/s outcrops	10ag(i)	Epip [1] Ac [1] Ac [3] Bs [1] Er/ Ceg/ Had Cal [2]	?100-150+ 50-60+ 15-20+ 20-30+ up to 5-10+ 5-10+	16m 16m 2-3m 5m up to 4m 3-4m	16m 12m 1-2m 4m varies 2-3m	see notes good good/ lopped good good good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; significant s/s outcrops; significant remnant native tree group; no access; Epip [1]- old growth spec. on embankment adj. to driveway/ multi-trunk [4]/ 2X lopped/ 2000mm diam. base/ storm damaged crown w. some dead wood; Ac [3]/ lopped under o'head power-lines/ vigorous new growth; Ac [1]- old growth spec./ some dead wood; Fru [1]- multi-trunk/ some pruning; remnant natives [incl. Dianella, Calochlaena, Lomandra, Smilax spp.]; mixed gen.& local native planting [incl. Pittosporum revolutum, Angophora hispida, Acacia ulicifolia, Ceratopetalum, Banksia, Tristaniopsis, Hakea, Callicoma, Actinotus spp./ all likely planted]; Pu regrowth; Cyathea sp./cultivated origin; some weeds [incl. Ipomoea, Tradescantia, Nephrolepis, Asparagus spp.].
upper embankment adj. to bdy. No.32 The Bulwark			Ac [1]	80-100+	18m	22m	good					
rear garden/ rock outcrops adj. to upper rear bdy. to No. 28 The Bulwark			Fru [1]	20-30+	8m	7m	good					
For Ac [1] listing on bdy. No.32 The Bulwark refer to The Bulwark - Residential Properties.												
27 The Scarp: rear garden/ steep gully & creek-line [lower boundaries adj. Nos. 25 & 27A The Scarp]	s/s outcrops s/s scarp	10ag(iii)						5	low	fragmented	T&BPO	exotic garden; significant s/s scarp & rock outcrops; Pu regrowth; Cyathea sp./ cultivated origin; generic native planting [incl. Corymbia citriodora].
27A The Scarp: rear garden/ adj. to bdy. No.25 The Scarp	s/s scarp s/s outcrops	10ag(i)	Epip [1]	80-100+	20m	22m	good	varies: 4-5 [mainly 5]	low	fragmented	SREP 23 /T&BPO	exotic garden; significant s/s scarp & rock outcrops; no access; Epip [1]/ Ceg [1]- old growth specs.; gen. native canopy/ planted (dom.) [Euc. grandis/ E. microcorys, Corymbia citriodora]; Cyathea sp./cultivated origin; remnant natives [Calochlaena, Blechnum spp.];
steep slope/ adj. to creek-line	two trees remnant community		Ceg [1]	80-100+	8m	6m	good					

												Pu regrowth; dom. weeds [<i>Setaria</i> , <i>Hedychium</i> , <i>Tradescantia</i> spp.]; listings subject to bdy. survey.
												Survey Date: 8 Apr-12 Apr 2013
27B The Scarp: front garden/ upper embankment [below road/ carport & right-of-way]	s/s outcrops tree group remnant community	10ag(i)	Epip [1] Epip [1] Mv [1]	40-50+ 40-50+ 20-30+	16m 14m 4m	10m 10m 2m	good fair good/ coppicing?	varies: 4-5 [mainly 5]	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	native/ exotic garden; significant rock outcrops; Epip [1]/ fair- open crown/ some dead wood; <i>Myrsine variabilis</i> - possibly much older/ coppicing at base; natives [<i>Calochlaena</i> sp.]; Pu regrowth possibly much older/ coppicing at base;
northern garden/ upper slope			Epip [1]	60-80+	22m	12m	good					Epip [1]/ older spec.- damage to lower trunk & some dead wood; gen. native planting [<i>Toona australis</i> , <i>Acacia elata</i>]
rear garden/ embankment adj. to house & lower steep slope [incl. southern garden adj. to bushland reserve]			Epip [1] Er [3] Ceg [1] Ceg [1] Gf [1] Epip	?100-150+ up to 20-30+ 50-60+ 20-30+ 5-10+ <5	22m 4m 4m 5m 4m up to 1-2m	16m 2-3m 4m 2m 3m up to 0.5m	good good good good good/ regrowth good/ regen.					Epip [1]/ old growth 1300mm diam. specimen, multi-trunk [3]/ 1 X lopped at base/ some past pruning; remnant natives [incl. <i>Notelaea</i> , <i>Homalanthus</i> , <i>Calochlaena</i> , <i>Eustrephus</i> , <i>Smilax</i> , <i>Oplismenus</i> spp.]; <i>Cyathea cooperi</i> - cultivated origin; Pu [dom.] regrowth; dom. weeds [<i>Lantana</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Ochna</i> , <i>Rumex</i> , <i>Lonicera</i> , <i>Anredera</i> spp.]; owner confirmed bdy. to reserve.
27C The Scarp: upper scarp level [above driveway/ right-of-way] adj. to bdy. Nos. 29 & 35 The Scarp	s/s outcrops tree group remnant community	10ag(i)/ 10ar(i)	Ac [1] Ac [1] Ac [2] Ac [1] Epip [1] Ceg [2] Be [3] Al/ Er/ Ceg	80-100+ 50-60+ 30-40+ 15-20+ 60-80+ 40-50+ 20-30+ up to 5-10+	12m 9m 5-8m 4m 9m 4-5m up to 1.5m up to 3-4m	9m 7m 4-6m 2m 9m 3-4m up to 2m varies	good good good good fair good good good	varies: 2-5	high-low	contiguous	adj.SEPP 19 /T&BPO SREP 23	significant remnant native community on upper scarp/ part of larger group [see listing 29 The Scarp - southern boundary]; significant s/s scarp& rock outcrops; Ac [1]- old growth spec.; Epip [1]/ fair- multi-trunk spec./ some dead wood; good regen./ natives [incl. Be [3]- <i>Banksia ericifolia</i> (not cultivated)
below upper scarp/ rock outcrops adj. to driveway/ right-of-way		10ag(i)/ 10ag(iii)	Ceg [1] Fru [3]	40-50+ up to 10-15+	5m up to 2m	3m up to 3m	good good/ lopped	varies: 4-5	low	fragmented		<i>Grevillea linearifolia</i> , <i>Epacris longiflora</i> , <i>Gleichenia</i> , <i>Histiopteris</i> , <i>Calochlaena</i> , <i>Pteridium</i> spp.]; Pu regrowth; weeds [incl. <i>Asparagus</i> , <i>Nephrolepis</i> spp.]; subject to bdy. survey; no access.
north-western garden/ lawn slope adj. to house		10ag(i)	Cgu [1] Ac [1]	60-80+ 80-100+	14m 22m	9m 20m	good good	varies: 4-5 [mainly 5]				Cgu [1]- some dead wood; Ac [1]- old growth spec.; exotic garden; native planting [incl. <i>Acmena smithii</i> X3].
rear garden/ lower embankment [adj. to bushland reserve]			Epil [1]	50-60+	22m	22m	good					Epil [1]- likely planted; Ac X2/ mature- on reserve/ subject to bdy. survey.

rear garden/ lower south-eastern corner/ rock outcrops [adj. to bushland reserve]			Ac [1] Cya	20-30+ up to 10-20+	5m up to 1m	1m 2-3m	good good	varies 3-5				Pu [dom.] regrowth; remnant natives [Cya/ <i>Cyathea australis</i> , <i>Calochlaena</i> spp. (dom.)]; weeds [incl. <i>Lantana</i> , <i>Ligustrum</i> , <i>Nephrolepis</i> spp.].	
												Survey Date: 5 Dec-9 Dec 2011	
29 The Scarp: front garden/ [upper north-west embankment] private right-of-way to Nos. 27B and 27C The Scarp	s/s outcrops s/s scarp tree group remnant community	10ag(i)/ 10ar(i)	Epip [1]	?100-150+	14m	15m	good	5	low	fragmented	T&BPO	exotic garden; owner confirmed survey boundaries; Epip [1]- v. old growth multi-trunk spec./ some dead wood/ past pruning history; dom. weeds [incl. <i>Senna</i> , <i>Nephrolepis</i> , <i>Asparagus</i> spp.]; Ac [1]- old growth spec./ past lopping; Ceg X2- likely planted; Pu regrowth; natives/ assoc.w. upper scarp [incl. <i>Ozothamnus diosmifolius</i> , <i>Gahnia erythrocarpa</i> , <i>Lomandra</i> spp.]; generic native planting [<i>Leptospermum</i> sp./ Bint]; <i>Cyathea</i> sp./ cultivated origin; Eastern Water Dragons [<i>Physignathus lesueurii</i>] / pool deck area.	
upper scarp/ rock outcrops adj. to house & pool deck			Ac [1] Fru [1] Ac [1] Er [2] Ceg [4] Ac	80-100+ 30-40+ 20-30+ 10-15+ up to 30-40+ <5	9m 9m 8m 2-3m up to 2m <1m	12m 7m 7m 1.5m up to 1.5m <0.5m	lopped good good good/ pruned good/ pruned good/ regen.	varies: 3-5 [mainly 5]	medium-low				
lower scarp/ overhang adj. to right-of-way			Gf	<5	<1m	<0.5m	good/ regen.						native ferns/ overhang [incl. <i>Adiantum hispidulum</i> , <i>Sticherus flabellatus</i> , <i>Calochlaena</i> , <i>Gleichenia</i> spp.]; weeds [incl. <i>Ficus pumila</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Hedera</i> spp].
upper scarp [south of pool deck/ enclosure] adj. to north-west bdy. No.35 The Scarp & northern boundary to No. 27C The Scarp			Ac [1] Ac [1] Ac [3] Ac [5] Epip [1] Ceg [1] Er [1] Ceg/ Al Al/ Er [dom.] Bs/ Lep Be	?100-150+ 60-80+ 30-50+ 15-20+ 80-100+ 40-50+ 15-20+ up to 10-15+ up to 5-10+ up to 10-15+ up to 15-20+	18m 9m 10-12m 8-9m 14m 6m 6m up to 4m up to 3-4m up to 2-4m up to 4m	20m 9m 6-8m up to 4-6m 15m 3m 4m varies varies varies up to 4-5m	good good good good good good good good good good good	varies: 1-5 [mainly 1-2]	high-low	contiguous		significant remnant native community on upper scarp; significant s/s scarp & rock outcrops; Ac [1]/ upper slope- v. old growth multi-trunk [2] specimen; Epip [1]- old growth multi-trunk spec./ possibly older; Epip X2- dead stumps; high biodiversity/ good regen.; natives [incl. <i>Xanthorrhoea arborea</i> , <i>Hakea teretifolia</i> , <i>Banksia ericifolia</i> , <i>Lambertia formosa</i> , <i>Acacia linifolia</i> , <i>A. floribunda</i> , <i>Leptospermum polygalifolium</i> , <i>Caustis flexuosa</i> , <i>Banksia spinulosa</i> , <i>Grevillea linearifolia</i> , <i>Lomatia silaifolia</i> , <i>Hibbertia dentata</i> , <i>Billardiera scandens</i> , <i>Bauera</i> , <i>Notelaea</i> , <i>Dodonaea</i> , <i>Eustrephus</i> , <i>Crowea</i> , <i>Pomax</i> , <i>Pandorea</i> , <i>Smilax</i> , <i>Pteridium</i> , <i>Calochlaena</i> , <i>Histiopteris</i> , <i>Lomandra</i> , <i>Dianella</i> , <i>Austrodanthonia</i> ,	

												<i>Schoenus</i> spp.]; <i>Hibbertia scandens</i> / likely cultivated origin; some weeds <i>Lantana</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Parthenocissus</i> spp.].
30 The Scarp: front garden	s/s outcrops s/s scarp two trees	10ag(i)/ 10ag(iii)						varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; generic native planting [<i>Euc. saligna</i> , <i>Corymbia maculata</i>]; significant s/s scarp & rock outcrops; Ac [1]-some dead wood; Fru [1]- multi-stemmed specimen assoc. w. rock outcrops; remnant natives [incl. <i>Calochlaena</i> , <i>Blechnum</i> spp.]; dom. weeds [<i>Ligustrum</i> , <i>Lantana</i> , <i>Lonicera</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.].
rear garden/ upper slope & rock outcrops adj. to rear bdy. No.26 The Bulwark			Ac [1] Fru [1]	60-80+ 40-50+	16m 12m	12m 15m	good good					
32 The Scarp: rear garden/ northern gully & creek-line	tree group	10ag(i)	Ac [1] Epip [1]	50-60+ 40-50+	20m 16m	12m 6m	good fair	5	low	fragmented	T&BPO	exotic garden; weed thicket (dom.)/ inaccessible; Ac [1]- some dead wood; Epip [1]/ fair- crown die-back/ sparse canopy & dead wood; Pu regrowth; gen. native planting [Bint]; <i>Cyathea</i> sp./ cultivated origin; weeds [incl. <i>Ipomoea</i> , <i>Anredera</i> , <i>Setaria</i> , <i>Tradescantia</i> spp.]; easement listing subject to bdy. survey.
easement adj. to bdy. No.16 The Bulwark			Al [1]	15-20+	6m	3m	good					
adj. to house & southern bdy. to No.34 The Scarp			Ac [1]	50-60+	14m	12m	good					
34 The Scarp: front garden/ embankments adj. to driveway	s/s outcrops s/s scarp tree group	10ag(i)	Ac [1] Ceg [1]	15-20+ 30-40+	8m 6m	5m 5m	good good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	exotic garden; significant s/s scarp & rock outcrops; current building works [retaining wall]; Ac X3- some dead wood/ pruning; natives [<i>Calochlaena</i> , <i>Pteridium</i> , <i>Lomandra</i> spp.]; dom. weeds [<i>Asparagus</i> , <i>Nephrolepis</i> spp.]; no access onto property.
rock outcrops adj. to private right-of-way			Ac [1]	30-40+	14m	6m	good					
rear garden/ upper level			Ac [1]	60-80+	15m	12m	good					
												Survey Date: 8 Apr-12 Apr 2013
35 The Scarp: front garden/ upper scarp adj. to road/ right-of-way	s/s outcrops tree group	10ag(i)	Epip [1]	30-40+	9m	6m	lopped	5	low	fragmented	adj.SEPP 19 /T&BPO SREP 23	exotic garden/ steep slope; Epip [1]- multi-trunk/ lopped & competition w. exotic <i>Bambusa</i> sp.; no access. dom. weeds/ clearing [<i>Lantana</i> sp.]
rear garden/ upper steep slope	remnant community		Pu [dom.]	up to 10-15+	up to 4-5m	up to 4-5m	regrowth	varies: 4-5		restricted		
rear garden/ lower slope adj. to bushland reserve			Epip [3+] Al [3] Al/ Er/ Had Ac [1] Epip [1]	40-50+ 30-40+ up to 10-20+ 40-50+ 80-100+	up to 15-18m up to 9-14m up to 4-6m 15m 18m	varies up to 5-7m varies 3m 18m	good poor [2]/ fair [1] good good good	varies: 2-3	high-medium	contiguous		
lower bdy. adj. to reserve												
												Survey Date: 12 Dec-16 Dec 2011

36 The Scarp: front garden/ lower scarp adj. to southern bdy. to No.10C The Bulwark & private right-of-way	s/s scarp s/s outcrops tree group	10ag(i)	Epip [1] Cgu [1] Al [3] Gf [2] Er [3]/ Bs [1] Ceg [1] As [1]	60-80+ 50-60+ 10-15+ 10-15+ 5-10+ 5-10+ 10-15+	15m 9m 5-7m 5-6m up to 3m 3m 3m	15m 6m 4-6m 4-6m up to 2m 1m 3m	good poor good good good good good/ pruned	5	low	restricted	T&BPO	terraced garden; no access; significant s/s scarp & rock outcrops; all listings subject to bdy. survey; Epip [1]- lower scarp/ some dead wood & pruning/ possibly old growth spec.; Cgu [1]/ poor- ext. dead wood/ crown die-back (60%)/ new epicormic growth; natives [<i>Pteridium</i> , <i>Pteris</i> spp.]; local native planting/ (unknown provenance) [incl. Al/ Gf/ Er/ Bs/ Ceg/ As + <i>Banksia</i> <i>spinulosa</i>, <i>Allocasuarina torulosa</i>, <i>Grevillea linearifolia</i> - all likely planted]; weeds [incl. <i>Olea</i>, <i>Nephrolepis</i> spp.].
												Survey Date: 8 Apr-12 Apr 2013
37-39 The Scarp: upper terraces/ steep slope below roadway & right-of-way w. new landing/ development site [old terraces/ steps- no residence]	s/s outcrops s/s scarp tree group remnant community	10ag(i)	Ac [1] Er [2] Al [3]	20-30+ 30-40+ 30-40+	9m 7-8m up to 9-12m	3m 3m up to 3-4m	good good good [2]/ fair [1]	varies: 4-5	low	restricted	adj.SEPP 19 /T&BPO SREP 23	large block/ steep slope; significant s/s scarp & rock outcrops; upper slope highly disturbed w. fragmented native canopy; <i>Cyathea cooperi</i> / cultivated origin; dom. weeds [incl. <i>Ageratina</i> , <i>Senna</i> , <i>Lonicera</i> spp.]; no access.
upper steep slope to mid-slope/ scarps & rock outcrops			Epip [1] Al [?] Epip [3] Ceg [?] Cgu [1] Er/ Al [dom.]	60-80+ up to 30-40+ 30-40+ up to 50-60+ 40-50+ up to 5-10+	16m up to 9-14m 12-16m up to 6m 16m up to 4-6m	15m up to 5-7m varies up to 2m 7m varies	good varies fair [2]/ good [1] good good good/ regen.	varies: 3-5 [mainly 4-5]	medium-low	fragmented		Pu [dom.] regrowth; weed thicket [<i>Lantana</i> sp.]; dead standing trees/ stags incl. old growth Epip X1 spec.; significant remnant native canopy tree
mid-slope												group on upper & mid-slope grading to core bushland community.
lower eastern slope adj. to steps & bdy. No.41 The Scarp			Cgu [1] Cgu [1]	60-80+ 20-30+	18m 12m	9m 4m	good good					Cgu [1]- multi-trunk; recent clearing along lower east bdy.; weeds [<i>Senna</i> , <i>Lantana</i> , <i>Cotoneaster</i> , <i>Lonicera</i> spp.].
lower western slope adj. to No.35 The Scarp & rear bdy. to bushland reserve	core bushland community		Ac [1] Ac [1] Epip [3+]	60-80+ 60-80+ 20-30+	20m 18m 10-12m	15m 12m 4-5m	good fair good	varies: 1-2	high	contiguous		high biodiversity/ good regen. [incl. <i>Grevillea linearifolia</i> , <i>G. buxifolia</i> , <i>Pomaderris</i> , <i>Dodonaea</i> , <i>Notelaea</i> , <i>Crocea</i> , <i>Epacris</i> , <i>Caustis</i> , <i>Smilax</i> , <i>Entolasia</i> spp.]; subject to bdy. survey/ adjoins Area C(iii) [see listing below].
The Scarp - Road Reserves, Drainage Easements & Public Pedestrian Linkages:												Survey Date: 25 Jul-29 Jul 2011
For road reserve/ bushland at corner of The Scarp/ The Bulwark [adj. to No.50 The Bulwark] refer to The Bulwark - Road Reserves, Drainage Easements & Public Pedestrian Linkages.												
pedestrian right-of way/ steps between Nos.5 & 7 The Scarp [linking to Castlehaven Reserve walking track]	tree group	10ag(i)	Bs[1]/ As[1] Pu [dom.]	10-15+ up to 20-30+	5m up to 5-6m	3m varies	v.poor regrowth	5	low	restricted	adj.SEPP 19 /T&BPO	Bs/ As- likely cultivated/ ext. die-back; highly modified; Pu [dom.] regrowth; dom.weeds [<i>Cinnamomum</i> , <i>Cestrum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.].

												Survey Date: 22 Aug-26 Aug 2011
public verge/ rock outcrops: adj. to bdy. Nos.7 & 9 The Scarp	s/s outcrops single tree	10ag(i)	Er [1]	10-15+	3m	2m	good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock formations/ outcrops; remnant natives [incl. <i>Lomandra</i> sp./ on s/s outcrops, <i>Pteridium</i> sp.]; also gen. cultivated <i>Lomandra</i> sp./ possibly <i>L. hystrix</i> ; Pu regrowth; dom. weeds [incl. <i>Genista</i> , <i>Acetosa</i> , <i>Setaria</i> spp.].
public verge/ rockery [section] adj. to bdy. No.9 The Scarp			Ac [1] Cgu [1]	30-40+ 30-40+	10m 10m	12m 8m	good fair	5				Cgu [1]/ fair- dead wood/ epicormic growth/ natural level raised in bed; remnant natives [incl. <i>Podocarpus</i> <i>spinulosus</i> , <i>Dianella</i> sp.]; gen. native planting; dom. weeds [see above].
mown grass verge: adj. to No. 23 The Scarp	single tree	10ag(i)	Cgu [1]	40-50+	15m	9m	fair	5	low	fragmented	T&BPO	Cgu [1]- ext. dead wood/ epicormic growth; recent landscaping.
public verge/ embankment: adj. to No. 32 The Bulwark [The Scarp frontage]	s/s outcrops remnant community	10ag(i)	Ac [1]	60-80+	18m	10m	good	5	low	fragmented	T&BPO	significant rock outcrops; no remnant native understorey; dom. weeds [incl. <i>Ligustrum</i> , <i>Cotoneaster</i> , <i>Nephrolepis</i> , <i>Lonicera</i> , <i>Asparagus</i> , <i>Watsonia</i> spp.].
Note: Listing subject to boundary survey. Refer to adjoining listing for No.32 The Bulwark.												
public verge/ embankment: adj. to No. 34 The Bulwark [The Scarp frontage]	s/s outcrops remnant community	10ag(i)						varies: 4-5 [mainly 5]	low	fragmented	T&BPO	significant s/s outcrops; remnant native understorey [<i>Podocarpus spinulosus</i> , <i>Acacia linifolia</i> , <i>Pteridium</i> , <i>Dianella</i> , <i>Lomandra</i> , <i>Smilax</i> spp.].
Note: Listing subject to boundary survey. Refer to adjoining listing for No.34 The Bulwark.												

The Scarp - Public Reserves:

Survey Date: 25 Jul-29 Jul 2011

Haven Amphitheatre

Haven Amphitheatre is a small/ modified bushland reserve [partially scheduled SEPP 19] located between residential properties No.1 The Scarp & No.15 The Barricade.

The upper portion of the gully is terraced with a stage area. The lower gully adjoins Castlehaven Reserve & walking track linking to Retreat Reserve [no access to lower portion of reserve].

Area A(i): remnant bushland- upper gully & s/s terraces [northern & western slopes adj. to The Scarp/ The Barricade]	tree group s/s outcrops remnant community	10ag(i)/ 10ag(iii)	Esi [1] Ac [2] Ac [2] Ceg [2] TI [1] Sygl Pu [dom.] Gf Sygl/ Fru Bs/ Er/ Cal Ceg/ Cea	50-60+ 50-60+ 20-30+ 30-50+ 15-20+ up to 5-10+ up to 30-50+ up to 10-15+ <5 up to 5-15+ up to 5-15+	18m 16-18m 16-18m 6m 5m up to 4-5m up to 6-7m up to 5-9m <1.5m up to 4-6m up to 4-6m	15m 12-16m 8-10m 2m 4m 2-3m varies up to 3-4m <1m varies varies	good good good good/ lopped good good/ regrowth good/ regrowth good/ regrowth good/ regen. good good	varies: 3-5	medium-low	contiguous	adj.SEPP 19 /T&BPO	steep gully/ creek-line; significant rock outcrops; highly disturbed/ fragmented remnant community; Esi [1]- some dead wood; Ac [4]/ terraces possibly planted; Ceg [2]- lopped for o'head power-lines; <i>Tristanopsis laurina</i> [1]- in cut-out section of stage/ possibly planted; successive generic & local native overlays [incl. <i>Euc. saligna</i> / <i>E.</i> <i>robusta</i> , Bint, <i>Acacia</i> , <i>Austrostipa</i> spp.]; some weeds [<i>Asparagus</i> sp.]/ under current bush regen./ restoration strategy [Bs/ Er/ Cal/ Ceg/ Cea - all likely planted (unknown provenance);
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												<i>Cyathea cooperi</i> [dom.] up to 6-7m HT/cultivated origin; native understorey [<i>Podocarpus spinulosus</i> , <i>Hibbertia dentata</i> , <i>Cissus antarctica</i> , <i>Stephania</i> , <i>Todea</i> , <i>Pteridium</i> , <i>Adiantum</i> , <i>Doodia</i> , <i>Hypolepis</i> , <i>Pellaea</i> , <i>Pteris</i> , <i>Lomandra</i> , <i>Dianella</i> spp.]; Pu [dom.] regrowth.
Area A(ii): remnant bushland-upper gully/ steep eastern slope adj. to No.1 The Scarp	tree group s/s outcrops remnant community	10ag(i)/ 10ag(iii)	Epip [1] Ac [1] Pu [dom.]	?100-150+ 50-60+ up to 30-50+	16m 16m up to 6-7m	12m 12m varies	good good good/ regrowth	varies: 3-5	medium-low	contiguous	SEPP 19/ T&BPO SREP 23	steep slope; significant rock outcrops; highly disturbed/ fragmented remnant community; Epip [1]- adj. to bdy. No.1 The Scarp/ old growth spec./ massive base 1600mm DBH/ some cavities; subject to bdy. survey; remnant natives [incl. <i>Cissus hypoglauca</i> , <i>Calochlaena</i> (dom.), <i>Hypolepis</i> , <i>Smilax</i> spp.]; area under bush regen. strategy; Pu [dom.] regrowth; <i>Cyathea</i> sp.-cultivated origin.
Area B(i): remnant bushland-lower gully/ steep slope & creek-line [below stage level]	tree group s/s outcrops remnant community	10ag(i)/ 10ag(iii)	Ac/ Epip Ceg TI Pu [dom.] Sygl	up to 80-100+ up to 60-80+ up to 15-20+ up to 30-50+ up to 5-10+	up to 16-18m up to 7-8m up to 7-8m up to 7-8m up to 4-5m	varies varies varies varies 2-3m	good good good good/ regrowth good/ regrowth	varies: 3-5	medium-low	contiguous	SEPP 19/ T&BPO SREP 23	steep slope/ gully & natural creek-line; significant rock outcrops; highly disturbed/ fragmented community; native canopy largely intact- Ac/ Epip (dom.) incl. old growth specs./ up to 800mm DBH; <i>Tristaniopsis laurina</i> - possibly planted; Pu [dom.] regrowth; <i>Cyathea cooperi</i> [dom.] up to 7-9m HT/ cultivated origin; dom. exotic garden escapes/ weeds [<i>Ligustrum</i> , <i>Lantana</i> , <i>Cestrum</i> , <i>Ochna</i> , <i>Setaria</i> , <i>Nephrolepis</i> , <i>Arecastrum</i> , <i>Strelitzia</i> , <i>Archontophoenix</i> , <i>Hedychium</i> spp.]; no access to lower walking track.
<p><i>For lower walking track [steep gully/ creek-line below Haven Amphitheatre] see following listing for Castlehaven Reserve & Extension.</i></p> <p>Note: For further details of reserve's management history refer to <i>Griffin Reserves Plan of Management - Inventory of Reserves [R-14] (Lehany & Walker for WCC, 1997)</i> .</p>												

Castlehaven Reserve & Extension (Castlecrag Group - contiguous with Retreat Reserve and Cheyne Walk Reserve)

Castlehaven Reserve & Extension is a major bushland reserve scheduled as SEPP 19: Bushland in Urban Areas (Public Open Space) in the Willoughby City Bushland Plan of Management (2000).

This public foreshore reserve was a key component of the Griffin vision for the Haven Estate. The later acquisition of adjoining eastern foreshore land (part of the failed Cape estate) was consistent with Griffin's plans for public access to Castlecrag's southern foreshores (*Lehany & Walker for WCC, 1997*) .

Castlehaven Reserve & Extension listings are divided into Areas A-C [refer to aerial photos] as follows:

Area A(i): core bushland- adj. to foreshore track [below Nos. 58-66 The Bulwark] incl. steps to tidal flats/ creek-line &	s/s outcrops s/s scarp core bushland	10ag(i)/ 10ag(iii)	Ac [dom.] Epil [1] Sygl Er/ Gf	up to 80-100+ 80-100+ up to 10-15+ up to 5-10+	up to 18-22m 16m up to 3-4m up to 3-4m	varies 25m varies varies	good see notes good good/ regen.	varies: 1-2	high	contiguous	SEPP 19/ T&BPO SREP 23	significant rock outcrops; some canopy fragmentation; minimal weeds; Epil [1]- old growth spec./ 1200mm DBH/ rare example of taxa in Sailors Bay/ ext.
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linking to Retreat Reserve	community												damage to trunk/ some dead wood & epicormic growth; native understorey [<i>Xanthorrhoea</i> , <i>Synoum</i> , <i>Gleichenia</i> , <i>Smilax</i> spp.]; grading to weed thicket.
Note: Castlehaven Reserve - Area A(i) adjoins Retreat Reserve - Area A(iii). For Retreat Reserve listing refer to The Bulwark - Public Reserves.													
Area A(ii): remnant bushland- upper slopes/ rock outcrops adj. to rear bdy. Nos. 56-60 The Bulwark & rear bdy. Nos. 5-7 The Barricade	s/s outcrops remnant community	10ag(i)	Pu/ Gf Sygl Cya Fru Ac/ Cea Ceg/ Er/ Gf	up to 30-50+ up to 80-100+ up to 30-40+ up to 10-15+ <5 <5	up to 7-8m up to 5-6m up to 1.5-2m up to 3m up to 2m up to 2m	varies up to 7m varies varies varies	regrowth good good good good/ regen. good/ regen.	varies: 2-5	high-low	fragmented	SEPP 19/ T&BPO SREP 23	significant s/s outcrops; highly modified/ fragmented community; dom. exotics/ weeds [incl. <i>Ligustrum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> spp.]; remant natives/ mesic shift- [<i>Synoum glandulosum</i> , <i>Cyathea australis</i> , <i>Homalanthus</i> (dom.), <i>Adiantum hispidulum</i> , <i>Calochlaena</i> , <i>Hypolepis</i> , <i>Stephania</i> spp.]; good native regen./ area under regen./ restoration strategy.	
Area A(ii): remnant bushland- adj. to walking track & rear bdy. Nos.7-9 The Barricade	s/s outcrops remnant community	10ag(i)	Ac/ Epip Bs/ Al/ Ceg	up to 80-100+ up to 20-40+	up to 12-15m up to 4-6m	varies up to 2-4m	varies good	varies: 1-4	high-low	fragmented	SEPP 19 /T&BPO SREP 23	significant rock outcrops; varying level of canopy fragmentation/ disturbance & weed invasion [incl. <i>Michelia</i> sp.]; area under regen./ restoration strategy.	
Area A(iv): core bushland- adj. to walking track & rear bdy. Nos.11-15 The Barricade [incl. lower foreshore area]	s/s outcrops core bushland community	10ag(i)	Ac/ Cgu Epip/ Esi/ Bs Ceg/ Er Xa	up to 80-100+ up to 80-100+ up to 20-40+ up to 80-100+	up to 12-15m up to 12-15m up to 4-6m up to 1.5m	varies varies up to 2-4m up to 1.5m	good varies good good	varies: 1-2	high	contiguous	SEPP 19 /T&BPO SREP 23	high biodiversity; some fragmentation of native canopy/ understorey; natives [incl. <i>Caustis flexuosa</i> , <i>Pittosporum revolutum</i> , <i>Podocarpus spinulosus</i> , <i>Synoum</i> , <i>Notelaea</i> , <i>Xanthorrhoea</i> , <i>Crowea</i> , <i>Smilax</i> , <i>Pandorea</i> spp.].	
Area B(i): remnant bushland- steep gully & natural creek below Haven Amphitheatre & adj. to lower north-east bdy. No.15 The Barricade & lower south bdy. No.1 The Scarp	s/s outcrops remnant community	10ag(iii)	Ac/ Epip Ceg/ Cal Cya Pu [dom.] Sygl	up to 80-100+ up to 60-80+ up to 30-40+ up to 30-50+ up to 5-10+	up to 16-18m up to 6-8m up to 1.5-2m up to 7-8m up to 4-5m	varies up to 5m varies 2-3m	good good good good/ regrowth good/ regrowth	varies: 2-5	high-low	contiguous	SEPP 19/ T&BPO SREP 23	steep slope/ gully & natural creek-line; significant rock outcrops; varying level disturbance and weed invasion; native canopy largely intact- Ac/ Epip [dom.] incl. old growth specs.; understorey- <i>Cyathea cooperi</i> [dom.]- cultivated origin; Pu regrowth; remnant natives [<i>Callicoma serratifolia</i> , <i>Ceratopetalum gummiferum</i> , <i>Synoum glandulosum</i> , <i>Cyathea australis</i>].	
Note: Castlehaven Reserve - Area B(i) adjoins Haven Amphitheatre - Area B(i) [see above lsting for The Scarp - Public Reserves].													
Area B(ii): core bushland- adj. to foreshore & walking track below Nos.1-9 The Scarp [incl. lower track to inter-tidal area]	s/s outcrops core bushland community	10ag(i)	Ac/ Epip Esi/ Cgu Al [dom.] Bs/ Had Ceg/ Er Xa	up to 80-100+ up to 80-100+ up to 10-15+ up to 30-50+ up to 10-15+ up to 80-100+	up to 12-14m up to 12-14m up to 5-6m up to 5-6m up to 3-4m up to 1.5m	varies varies varies varies 1-3m up to 1.5m	good varies good varies good good	varies: 1-3	high-medium	contiguous	SEPP 19 /T&BPO SREP 23	high biodiversity; largely intact native canopy/ understorey; natives [incl. <i>Logania albiflora</i> , <i>Lomatia silaifolia</i> , <i>Myrsine variabile</i> , <i>Notelaea longifolia</i> , <i>Woollsia pungens</i> , <i>Epacris longiflora</i> , <i>Pultenaea daphnoides</i> , <i>Cissus hypoglauca</i> , <i>Xanthorrhoea arborea</i> , <i>Dodonaea</i> , <i>Pteridium</i> , <i>Calochlaena</i> ,	

												<i>Acacia, Lomandra, Eustrephus, Smilax</i> spp.]; some weeds [<i>Asparagus Nephrolepis</i> spp.].
Area B(iii): remnant bushland-adj. to lower rear bdy. Nos. 5 & 7 The Scarp	s/s outcrops remnant community	10ag(i)	Ac [dom.] Epip/ Cgu Gf/ Pu Al [dom.] Ceg/ Er	up to 80-100+ up to 80-100+ up to 10-15+ up to 10-15+ up to 10-15+	up to 12-14m up to 12-14m up to 4-5m up to 5-6m up to 3-4m	varies varies varies 2-4m 1-3m	good varies regrowth good good	varies: 1-5	high-low	contiguous	SEPP 19 /T&BPO SREP 23	varying level of disturbance/ weed invasion; largely intact native canopy/ Ac [dom.] incl. old growth specs./ Epip-fair to poor condition/ heavy lopping; native understorey [incl. <i>Grevillea linearifolia</i> , <i>Polyscias</i> , <i>Calochlaena</i> (dom.), <i>Pteridium/ Imperata</i> spp.]; grading to highly disturbed edges/ mown lawns; dom. exotics/ weeds.
Area B(iv): remnant bushland-steep gully & natural creek-line adj. to lower rear bdy. Nos. 11-17 The Scarp	s/s outcrops tree group	10ag(i)/ 10ag(iii)	Epip [dom.] Ac Cea	up to 80-100+ up to 80-100+ up to 80-100+	up to 16m up to 16m up to 12-14m	varies varies varies	varies good good	varies: 4-5	low	fragmented	SEPP 19 /T&BPO SREP 23	highly modified/ fragmented native community; significant <i>Ceratopetalum apetalum</i> [Cea] stand/ good regen.; Pu regrowth; remnant native understorey [incl. <i>Calochlaena</i> , <i>Blechnum cartilagineum</i> , <i>Eustrephus</i> , <i>Smilax</i> spp.]; gen. native planting [<i>Sloanea</i> , <i>Cyathea</i> spp./cult. origin]; dom. weeds [<i>Setaria</i> , <i>Tradescantia</i> spp.].
lower gully/ western creek-line to inter-tidal area	remnant community s/s outcrops		Ac/ Epip Cea	up to 80-100+ up to 10-15+	up to 16m up to 4-5m	varies up to 5-6m	good good	varies: 3-5	medium-low	contiguous		fragmented/ modified community; high biodiversity/ understorey [incl. <i>Grevillea linearifolia</i> , <i>Kunzea</i> , <i>Bauera</i> , <i>Elaeocarpus</i> , <i>Blechnum</i> , <i>Pteridium</i> , <i>Notelaea</i> , <i>Hypolepis</i> , <i>Smilax</i> , <i>Dianella</i> spp.]; good natural regen.; dom.weeds [<i>Nephrolepis</i> , <i>Asparagus</i> , <i>Lonicera</i> spp.]; listing subject to bdy. survey.
walking track/ terrace adj. to rear bdy. Nos.17-19 The Scarp			Ka/ Er Epip/ Ac Cea/ Er/ Gf	up to 5-10+ <5 <5	up to 2m <0.5m <0.5m	1-3m	good good/ regen. good/ regen.	varies: 2-5	high-low	fragmented		Ac [dom.]/ old growth specimens w. dense sub-canopy Cea [dom.]/ old growth multi-stemmed specs.; Cea [dom.]/ understorey [incl. <i>Notelaea</i> , <i>Calochlaena</i> , <i>Blechnum</i> , <i>Hypolepis</i> , <i>Eustrephus</i> , <i>Smilax</i> , <i>Lomandra</i> spp.]; varying level of disturbance/ weeds.
Area B(v): remnant bushland-steep lower slopes/ eastern creek-line to inter-tidal area adj. to rear bdy. Nos. 23-25 & 27A The Scarp	remnant community waterfall	10ag(iii)	Ac [dom.] Cea [dom.] Cea [dom.]	up to 80-100+ up to 80-100+ up to 5-10+	up to 18-22m up to 14-16m up to 2-3m	varies varies up to 2-3m	good good good	varies: 2-5	high-low	contiguous		significant s/s scarp & rock outcrops; listings subject to bdy. survey; varying level of disturbance/ weed invasion; high biodiversity/ understorey.
Area C(i): core bushland-upper slope adj. to walking track & rear bdy. No.25 The Scarp	s/s outcrops core bushland community	10ag(iii)/ 10ag(i)	Epip/ Ac Syl Al/ Er/ Had	up to 80-100+ up to 10-15+ up to 10-15+	up to 16-18m up to 3-4m up to 3-4m	varies varies varies	varies good good	varies: 1-5	high-low	contiguous	SEPP 19 /T&BPO SREP 23	Survey Date: 8 Apr-12 Apr 2013
Area C(ii): remnant bushland-	remnant	10ag(i)	Epip/ Ac	up to 60-80+	up to 16-18m	varies	varies	varies: 4-5	low	fragmented	SEPP 19	significant s/s outcrops; highly modified

adj. to walking track & rear bdy. Nos. 27A & 27B The Scarp [incl. old house site]	community s/s outcrops		Gf/ Pu Al/ Er/ Cal	up to 10-15+ up to 10-15+	up to 4-5m up to 3-5m	varies varies	regrowth good/ regrowth				/T&BPO SREP 23	fragmented native community; dom. weeds/ recent clearing [<i>Phyllostachys</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Lonicera</i> , <i>Senna</i> spp.]; Pu regrowth.
steep slope to inter-tidal area [below walking track]			Epip Cgu/ Ac Al/ Ceg/ Er	up to 80-100+ up to 60-80+ up to 20-30+	up to 14-18m up to 14-18m up to 4-7m	varies varies varies	good good good	varies:2-3	high-medium	contiguous		significant s/s outcrops; native under- storey [incl. <i>Caustis</i> , <i>Crowea</i> , <i>Smilax</i> spp.]; Pu regrowth [dom.].
Area C(iii): core bushland- adj. to rear bdy. Nos. 27C, 35 & 37-39 The Scarp [incl. steep lower slope below walking track to inter- tidal area & steps to boathouse]	s/s outcrops s/s scarp core bushland community		Epip [dom.] Cgu/ Ac Esi Ceg Al/ Er	up to 80-100+ up to 60-80+ up to 80-100+ up to 60-80+ up to 20-30+	up to 16-18m up to 16-22m 9-12m up to 6m up to 6-9m	varies varies 9-12m up to 4-5m up to 3-4m	good good good good good	varies: 1-3 [mainly 1-2]	high-medium	contiguous		significant s/s outcrops/ lower scarp to inter-tidal rock platform; Epip- some old growth specs.; intact understorey/ good regen. [<i>Xanthorrhoea arborea</i> , <i>Persoonia levis</i> , <i>Grevillea linearifolia</i> , <i>G. buxifolia</i> , <i>Pomaderris intermedia</i> , <i>Podocarpus spinulosus</i> , <i>Acacia</i> <i>terminalis</i> , <i>Epacris</i> , <i>Crowea</i> , <i>Caustis</i> , <i>Bauera</i> , <i>Notelaea</i> , <i>Breynia</i> , <i>Lomandra</i> , <i>Opercularia</i> , <i>Calochlaena</i> , <i>Smilax</i> <i>Dianella</i> , <i>Entolasia</i> spp.]; Pu regrowth; minimal weeds.
Area C(iv): remnant bushland- adj. to walking track & rear bdy. Nos. 41 & 43 The Scarp, 8C The Bulwark, 11 & 12 Knight Place & 50 & 54 Linden Way [lower portions]	remnant community s/s outcrops		Ac [dom.] Gf/ Pu Al/ Er	up to 60-80+ up to 20-30+ up to 10-15+	up to 22-25m up to 6-7m up to 4-7m	varies varies varies	good regrowth good/ regrowth	varies: 3-5 [mainly 5]	medium-low	fragmented		significant s/s outcrops; highly modified/ fragmented native canopy/ under- storey; dead standing trees [stags]; ext. clearing/ herbicidal damage in reserve; Pu regrowth; remnant natives [<i>Smilax</i> , <i>Calochlaena</i> , <i>Pteridium</i> spp.]; dom. weeds [incl. <i>Lantana</i> , <i>Nephrolepis</i> , <i>Tradescantia</i> , <i>Asparagus</i> , <i>Lonicera</i> , <i>Rumex</i> spp.]; also gen. native planting in reserve [incl. <i>Eucalyptus scoparia</i> , <i>Araucaria</i> spp.].
Area C(v): remnant bushland- adj. to walking track [below scarp/ overhang] & rear bdy. Nos. 38 & 46 Linden Way & 31 Cheyne Walk [west of steps to Cheyne Walk]	remnant community s/s scarp s/s outcrops	10ag(i)/ 10ag(iii)	Epip/ Ac Pu [dom.] Bs Er/ Cal/ Gf Cya	up to 80-100+ up to 40-60+ up to 60-80+ up to 30-40+ up to 60-80+	up to 16-18m up to 8-9m up to 6m up to 4-6m up to 5m	varies varies up to 6m varies 3-4m	good regrowth good good/ regrowth good	varies: 3-5	medium-low	fragmented		significant s/s scarp w. overhangs & outcrops; fragmented native canopy/ highly disturbed/ modified understorey; dead standing trees [stags]; mesic shift Pu [dom.] regrowth; remnant natives [Cya- <i>Cyathea australis</i> /incl. old spec. <i>Blechnum cartilagineum</i> , <i>Podocarpus</i> <i>spinulosus</i> , <i>Cissus hypoglauca</i> , <i>Smilax</i> <i>Calochlaena</i> , <i>Pteridium</i> spp.]; native ferns assoc. w. scarp/ overhang [incl. <i>Todea barbara</i> [dom.], <i>Blechnum</i> <i>ambiguum</i> , <i>B. patersonii</i> , <i>Gleichenia</i> ,

Note: Castlehaven Reserve & Extension - Area C(v) adjoins Cheyne Walk Reserve - Area A(i). Refer to Cheyne Walk - Public Reserves.

Note: For further details of reserve's management history refer to Griffin Reserves Plan of Management - Inventory of Reserves [R-15] (Lehany & Walker for WCC, 1997).

Histiopteris, *Adiantum* spp.]; *Cyathea cooperi* [dom.]/ cultivated origin; dom. weeds [incl. *Hedychium*, *Nephrolepis*, *Asparagus*, *Lantana*, *Senna*, *Rumex*, *Tradescantia*, *Lonicera* spp.].

The Tor Walk - Residential Properties:

Survey Date: 18 Nov-22 Nov 2013

1A The Tor Walk: rear garden/ lower steep slope & terraces to foreshore/ rock outcrops	s/s outcrops s/s/ scarp	10ag(i)						varies: 4-5 [mainly 5]	low	isolated	T&BPO SREP 23	steep slope/ significant rock outcrops; exotic garden; generic native planting [incl. Bint, <i>Banksia ericifolia</i> , <i>Grevillea</i> , <i>Acacia</i> spp.]; remnant natives [incl. <i>Lomandra</i> , <i>Dianella</i> , <i>Histiopteris</i> spp.] assoc.w. rock outcrops; Pu regrowth; dom. weeds [<i>Rumex</i> , <i>Ehrharta</i> spp]; no native canopy; no access.
1 The Tor Walk: rear garden/ upper terrace adj. to house	tree group s/s outcrops	10ag(i)	Ac [1]	50-60+	16m	9m	good	5	low	isolated	T&BPO SREP 23	steep slope/ significant rock outcrops; exotic terraced garden; highly modified; Ac [1]/ upper terrace- some dead wood; generic [incl. <i>Euc.lehmannii</i>] & local native planting [Ac/ Ka/ Er/ Be]/ all likely cultivated origin [unknown provenance]; Pu regrowth; no access.
mid-terraces & lower steep slope/ rock outcrops to foreshore			Gf [1] Ac/ Ka/ Er	5-10+ up to 5-10+	3m up to 2-3m	3m varies	good good					
												Survey Date: 22 Apr-26 Apr 2013
2A The Tor Walk: front garden/ upper scarp [below deck]	tree group s/s cutting s/s outcrops s/s/ scarp	10ag(i)	Cgu [1] Epip [1] Epip [1] Era [1] Fru	15-20+ 15-20+ 15-20+ 10-15+ <5	6m 7m 3m 2m <1m	3m 3m 2m 2m <1m	fair fair poor/ lopped fair good/ regen.	5	low	restricted	T&BPO	exotic garden; significant s/s scarp & rock outcrops; Cgu [1]- leaning/ some dead wood; Epip [1]/ fair- some dead wood/ regrowth; Epip [1]/ poor- lopped; Era [1]-on scarp edge fallen/ leaning; native ferns [<i>Gleichenia</i> sp.]; dom. weeds [incl. <i>Olea</i> , <i>Ligustrum</i> , <i>Senna</i> , <i>Ipomoea</i> spp.]; no access.
lower garden bed adj. to roadway			Ac [1]	10-15+	5m	2m	good					
2 The Tor Walk: front garden/ steep slope/ lower level	tree group s/s outcrops	10ag(i)	Ac [1] Ac [1] Ac [1]	60-80+ 50-60+ 20-30+	14m 16m 8m	15m 12m 4m	fair good poor	5	low	restricted	T&BPO	exotic garden; Ac [1]/ fair- dead wood/ open canopy; Ac [1]/ poor- ext. crown die-back (60%)/ vigorous new growth; gen.native planting [<i>Casuarina glauca</i>] dom. weeds [<i>Ligustrum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Rumex</i> spp.]; no access.
												Survey Date: 18 Nov-22 Nov 2013
3 The Tor Walk: front garden/ upper steep slope & rock outcrops	two trees s/s outcrops s/s scarp	10ag(i)	Ac [1] Ac [1]	60-80+ 50-60+	14m 16m	10m 12m	good good	5	low	fragmented	T&BPO SREP 23	exotic terraced garden; highly modified; significant s/s scarp & rock outcrops; Ac [1]/ near entry to house; Ac [1]/ on lower rock outcrops/ some dead wood;

												generic native planting [incl. Er cv.] & rear garden terraces [incl. Be/mature <i>Livistona australis</i> X 2]; no access.
5 The Tor Walk: front garden/ upper north garden adj. to steps & house/ on rock outcrops	tree group s/s outcrops s/s scarp	10ag(i)	Ac [1] Ac [1]	50-60+ 40-50+	10m 12m	4m 4m	see notes fair	5	low	fragmented	T&BPO SREP 23	exotic garden/ highly modified; Ac [1]- damaged/ lopped w. vigorous new growth; Ac [1]/ fair- ext. dead wood/ die-back (50%)/ vigorous new growth; Ac [1]- old growth spec./ some dead wood; gen. native planting; no access.
southern garden/ steep slope			Ac [1]	80-100+	20m	15m	good					
rear garden/ terraced upper slope adj. to bdy. No.3 The Tor Walk			Ceg [1]	50-60+	7m	2m	fair			isolated		Ceg [1]- past damage/ dead wood; ext. clearing/ weed management.
lower scarp/ rock outcrops to foreshore			Al [4]	5-10+	3-4m	2-4m	good					varies: 4-5 [mainly 5]
7 The Tor Walk: rear garden/ lower terrace	s/s outcrops tree group	10ag(i)	Ac [1] Ceg [2]	10-15+ 20-30+	6m 2m	4m 1m	good/lopped fair/ regrowth	5	low	isolated	T&BPO SREP 23	exotic/ native garden; highly modified; Ac [1]- likely planted; generic natives; <i>Dianella</i> sp. - possibly remnant.
7A The Tor Walk: rear garden/ lower slope	s/s outcrops tree group	10ag(i)	Ac [3] Er [1]	15-20+ 15-20+	7-14m 7m	4-6m 3m	good good	5	low	isolated	T&BPO SREP 23	exotic/ native garden; highly modified; Ac [3]/ Er [1]- possibly planted; generic natives; planted <i>Lomandra</i> sp.
												Survey Date: 22 Apr-26 Apr 2013
8 The Tor Walk [12 The Tor Walk]: front garden/ lower level [below deck]	two trees	10ag(i)	Epip [1] Epip [1]	60-80+ 60-80+	12m 8m	8m 6m	good see notes	5	low	restricted	T&BPO	exotic garden; Epip [1]/ see notes-past damage/ ext. dead wood in crown (30%)/ vigorous new growth.
8B The Tor Walk [4A The Tor Walk]: front garden/ lower level/ rock outcrops	s/s outcrops remnant community	10ag(i)						varies: 4-5 [mainly 5]	low	isolated	T&BPO	exotic garden; significant rock outcrops; remnant natives [<i>Calochlaena</i> sp.]; dom. weeds [<i>Asparagus</i> , <i>Nephrolepis</i> , <i>Hedera</i> spp.]; no access.
rear garden/ upper slope adj. to bdy. No. 6 The High Tor	two trees		Ac [1] Er [1]	60-80+ 20-30+	14m 7m	12m 3m	good good					significant rock outcrops; Ac [1]- multi-trunk spec./ some pruning; listings subject to bdy. survey.
												Survey Date: 18 Nov-22 Nov 2013
9 The Tor Walk: front garden/ upper level adj. to front bdy. wall	s/s outcrops tree group	10ag(i)	Cgu [1] Er [1]	15-20+ 15-20+	8m 7m	6m 6m	good good	5	low	restricted	T&BPO SREP 23	exotic terraced garden; highly modified; Cgu [1]- possibly planted; gen. natives Er [1]- likely planted.
rear garden/ steep slope												gen. native planting; mature <i>Livistona australis</i> X 2]; no access.
INCOMPLETE LISTING												
NOTE: Data gap for Nos.11 & 13 The Tor Walk - no access to properties.												
												Survey Date: 22 Apr-26 Apr 2013
14 The Tor Walk: front garden/	tree group	10ag(i)	Ac [1]	80-100+	16m	18m	good	varies: 4-5	low	restricted	T&BPO	exotic/ native garden; significant rock

lower slope/ terraces & rock outcrops adj. to carport	s/s outcrops		Ac [1] Al [1]	50-60+ 5-10+	10m 6m	7m 3m	good good	[mainly 5]				outcrops; significant remnant native tree group contiguous w. road reserve group/ community [see listings]; Ac [1]- old growth spec.; remnant natives [incl. <i>Calochlaena</i> , <i>Dianella</i> spp.]; weeds [<i>Ipomoea</i> , <i>Nephrolepis</i> spp.]; Gf [1]- old growth multi-trunk (2) spec./ heavy pruning history; Epip [1]- past storm damage/ dead wood & large cavity. remnant natives [<i>Dianella</i> , <i>Lomandra</i> spp.]; Pu regrowth [dom.]; gen. natives [Bint/ <i>Hibbertia scandens</i>]; dom.weeds [incl. <i>Lantana</i> , <i>Phoenix</i> , <i>Asparagus</i> , <i>Ipomoea</i> spp.].
<i>Note: For adjoining listings along road reserve refer to The Tor Walk - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
on lower south bdy. to easement/ subject to bdy. survey			Gf [1]	80-100+	6m	8m	good					
upper terraces/ adj. to house			Epip [1] Ceg [3]	60-80+ up to 30-40+	9m up to 2-3m	9m up to 2-3m	see notes good					
rear garden/ steep slope terraces above pool level to vehicular right-of-way			Ac [3] Ac [2]	50-60+ 40-50+	12m 9-10m	5-7m 7m	good good					
Survey Date: 18 Nov-22 Nov 2013												
NOTE: Data gap for Nos.15 & 17 The Tor Walk - no access to properties.												
Survey Date: 22 Apr-26 Apr 2013												
18A The Tor Walk: rear garden/ upper rear terrace adj. to pool	single tree	10ag(i)	Fru [1]	50-60+	9m	12m	good	5	low	restricted	T&BPO	exotic garden; Fru [1]- vigorous dense crown; no access onto property.
Survey Date: 18 Nov-22 Nov 2013												
NOTE: Data gap for No.19 The Tor Walk - no access to property.												
21 (19-21) The Tor Walk: front garden/ upper driveway	s/s outcrops tree group	10ag(i)	Epip [1]	50-60+	20m	9m	good	5	low	restricted	T&BPO	exotic garden/ steep slope; highly modified; Epip [1]- some dead wood/ competition w. planted <i>Ficus hillii</i> ; Ac [1]/ fair- ext. dead wood/ vigorous new growth; Ac [1]/ good- possibly old growth/ some dead wood; gen. native planting [incl. <i>Lophostemon</i> , <i>Livistona</i> , <i>Casuarina</i> spp.].
mid-level adj. to driveway			Ac [1]	50-60+	16m	8m	fair					
lower driveway			Ac [1]	60-80+	20m	16m	good					
INCOMPLETE LISTING												
<i>Note: Even numbers 22-28 The Tor Walk follow listing for 25 The Tor Walk</i>												
NOTE: Data gap for No.25 (23-25) The Tor Walk - no access to property.												
Survey Date: 22 Apr-26 Apr 2013												
22 The Tor Walk: rear garden/ top of scarp & rock outcrops	s/s outcrops s/s scarp tree group	10ag(i)	Ac [1] Al [1] Ac [1] Ac [5] Gf/ Er/ Cal	80-100+ 30-40+ 15-20+ 5-10+ up to 5-10+	18m 7m 3m 3-6m up to 3-4m	15m 7m 2m up to 2m varies	fair poor lopped good good	varies: 4-5 [mainly 5]	low	restricted	T&BPO	exotic/ native garden; significant rock outcrops; largely cleared/ modified; Ac [1]/ fair- old growth spec./ possible storm damage; Al [1]/ poor- ext. dead wood/ die-back (50%); Ac [5]-saplings/ good regen./ top of scarp; dead stags [standing dead trees]; remnant natives [<i>Pteridium</i> sp.]; gen. native planting [incl. <i>Euc.elata</i> , <i>Casuarina</i> , <i>Melaleuca</i> .

												<i>Acacia</i> spp./ <i>Acronychia oblongifolia</i> / <i>Cissus antarctica</i> - likely cultivated origin]; dom. weeds; no access.
24 The Tor Walk: garden/ upper level [below carport]	s/s outcrops	10ag(i)	Ple [1]	?80-100+	5m	5m	good	varies: 2-5	high-low	fragmented	T&BPO	significant s/s scarp & rock outcrops; native bush garden; Ple X2/ <i>Persoonia levis</i> - incl. old growth spec.; regen./ restoration strategy; [incl. generic & local native planting]; owner confirmed 40 yrs ago- Al [dom.]/ mesic shift; remnant natives [<i>Lomatia silaifolia</i> , <i>Lambertia</i> , <i>Crowea</i> spp.]; mixed over- lay local native planting [Bs/ Cal/ Ceg, <i>Bauera</i> , <i>Sticherus</i> spp.]/ gen. natives [Bint/ <i>Euc. scoparia</i> , <i>Toona</i> , <i>Cyathea</i> , <i>Acronychia</i> , <i>Eupomatia</i> , <i>Cissus</i> spp.]; weeds/ exotics.
mid- to lower rear garden/ steep slope	s/s scarp tree group remnant community		Ple [1]	?50-60+	3m	2m	good					
			Ceg [5+]	up to 30-50+	up to 3-4m	up to 3-4m	good					
			Cal [2]	up to 10-15+	2-3m	2-3m	good					
			Er [2]	up to 10-15+	6-7m	2-3m	good					
			Ac [1]	10-15+	4m	2m	good					
			Bs/ Cal/ Ceg	up to 20-30+	up to 3-4m	varies	good					
top of lower scarp			Ac [1]	60-80+	12m	8m	good					
lower scarp/ narrow strip												
lower scarp/ narrow strip	s/s scarp tree group		Ac [1]	80-100+	18m	8m	good	5	low			significant s/s scarp & rock outcrops; dom. weeds [<i>Phyllostachys</i> , <i>Ipomoea</i> spp.]; remnant natives [<i>Calochlaena</i> , <i>Pteridium</i> , <i>Sticherus</i> spp.]; <i>Cyathea</i> / <i>Cissus</i> - likely cultivated origin.
			Epip [1]	50-60+	16m	7m	good					
			Cal	up to 10-15+	3-5m	3-5m	good					
26 The Tor Walk: front garden/ lower slope	s/s outcrops	10ag(i)	Ac [1]	80-100+	20m	18m	good	varies: 3-5	low	fragmented	T&BPO	significant s/s scarp & rock outcrops; significant remnant native tree group/ community; Ac X2- old growth specs.; remnant natives [<i>Lambertia formosa</i> (old spec.), <i>Crowea</i> , <i>Histiopteris</i> , <i>Smilax</i> spp.]; mixed exotics/ generic & local native planting [Bint/ Had/ <i>Acacia binervia</i> , <i>Syzygium</i> , <i>Callistemon</i> spp.]; <i>Cyathea</i> sp.- cultivated origin; Ac [1]/ fair- ext. dead wood; Ceg [1]- multi-stemmed [4] spec./possibly older; weed management strategy/ minimal weeds [<i>Asparagus</i> sp.].
	s/s scarp		Ceg [1]	50-60+	5m	5m	good					
	tree group		Era [1]	5-10+	3m	2m	good/ leaning					
	remnant		Al [1]/Ceg [4]	up to 10-15+	up to 3-6m	varies	good					
	community		Er [4]/Gf [2]	up to 10-15+	up to 4-5m	varies	good					
rear garden/ mid-slope			Ac [1]	80-100+	22m	18m	good					
			Ac [1]	40-50+	16m	6m	good					
rear garden/ adj. to upper bdy. No. 24 The Tor Walk			Ac [1]	40-50+	15m	6m	good					
			Ac [1]	20-30+	8m	2m	fair					
			Ceg [1]	50-60+	6m	3m	good					
			Ceg [2]	20-30+	5-6m	2-4m	good					
			Al [1]	30-40+	6m	5m	good					
			Al [1]	10-15+	4m	2m	good					
			Er [3]	10-15+	up to 4-5m	up to 2m	good					
28 The Tor Walk: upper south garden/ adj. to garage	single tree	10ag(i)	Epip [1]	60-80+	16m	12m	fair	varies: 4-5 [mainly 5]	low	isolated	T&BPO	exotic garden; Epip [1]/ fair- ext. dead wood in crown (20%); no access. remnant natives [<i>Calochlaena</i> sp.].
lower steep slope												
												Survey Date: 18 Nov-22 Nov 2013
29 The Tor Walk: rear garden/ upper scarp adj. to bdy. No.31 The Tor Walk	s/s outcrops	10ag(i)	Ac [1]	60-80+	14m	9m	fair	5	low	restricted	T&BPO	significant s/s scarp & rock outcrops; exotic garden/ highly modified; Ac [1]- ext. dead wood; generic native planting

													[Bint]; weeds; no access.
inter-tidal zone/ adj. to lower bdy.													<i>Avicennia marina</i> X1- inter-tidal area
31 The Tor Walk: front garden/ nearnorthern entry & lawn area	tree group	10ag(i)	Ac [2]	5-10+	6m	3-4m	good	5	low	fragmented	T&BPO	significant s/s scarp & rock outcrops; exotic garden/ highly modified; Ac [2]- likely planted; Ac [1]/ fair- ext. dead	
rear garden/ lower scarp to foreshore [adj. to pool deck]	s/s outcrops s/s scarp		Ac [1] Ac [1] Fru [1]	30-40+ 15-20+ 10-20+	9m 9m 4m	8m 5m 5m	fair good good					wood/ new growth; gen. native planting [Bint/ <i>Eucalyptus scoparia</i> / <i>E. robusta</i> , <i>Syzygium paniculatum</i>]; no access.	
33 The Tor Walk: front garden/ upper level/ southern driveway adj. to bdy. No.35 The Tor Walk	s/s outcrops s/s scarp tree group		Ac [1] Gf [1]	60-80+ 60-80+	16m 8m	7m 12m	fair good/ lopped	5	low	fragmented		significant s/s scarp & rock outcrops; exotic garden/ highly modified; Ac [1]- ext. dead wood (30%)/ new growth; Gf [1]- pruned aligned.	
rear garden/ upper scarp											gen. native planting [E. scoparia X3]; Pu regrowth.		
lower scarp/ rock outcrops		Ac [2]	50-60+	12m	8-9m	good			restricted	Ac X2- some dead wood; no access.			
35 The Tor Walk: front garden/ upper level/ southern driveway	s/s outcrops tree group	10ag(i)	Ac [1] Gf [1]	10-15+ 40-50+	7m 7m	7m 3m	good good/ lopped	5	low	restricted	T&BPO	significant rock outcrops; exotic garden/ highly modified; Ac [1]- likely regen./ [see listing for No.33].	
rear garden/ rock outcrops to lower foreshore & bdy. to No.37 The Tor Walk			Ac [1] Ac [1]	50-60+ 50-60+	9m 14m	12m 9m	good fair	varies: 4-5 [mainly 5]				Ac [1]/ good- multi-trunk spec.; Ac [1]/ fair-on bdy. to No.37/ ext. dead wood new regrowth/ subject to bdy. survey; fallen/ dead Esi X1; remnant natives [incl. <i>Dianella</i> , <i>Lomandra</i> spp.]; Pu regrowth; dom. weeds [incl. <i>Hedera</i> , <i>Ligustrum</i> , <i>Asparagus</i> , <i>Nephrolepis</i> spp.]; no access.	
37 The Tor Walk: rear garden/ lower steep slope/ rock outcrops to foreshore	s/s outcrops tree group	10ag(i)	Epip [1] Ac [1] Ac [1] Pu [1] Ac [2+]	60-80+ 60-80+ <5 ?80-100+ <5	16m 12m <1m 6m 1.5-2m	9m 9m <1m 7m 1m	fair fair good/ regen. good good/ regen.	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant rock outcrops; exotic garden; Epip [1]/ fair- ext. dead wood/ crown die-back (50%) new growth; Ac [1]/ fair ext. dead wood/ die-back (40%)/ new growth; remnant natives [<i>Calochlaena</i> sp.]; Pu [1]-old growth multi-trunk spec. on rock outcrops adj. to HWM; dom. weeds [<i>Cinnamomum</i> , <i>Nephrolepis</i> , <i>Asparagus</i> , <i>Rumex</i> spp.]; no access.	
39 The Tor Walk: front garden/ upper level	s/s outcrops tree group	10ag(i)	Ceg [1]	20-30+	3m	2m	good	5	low	restricted	T&BPO	exotic garden/ highly modified; Ceg [1]- likely planted; no access.	
rear garden/ terraced lower slopes & rock outcrops to foreshore	remnant community		Ac [1] Ac [8+] Fru [4+] Bint	80-100+ up to 5-10+ <5 <5	16m up to 2-4m <1m 1.5m	9m 1-2m <1m 1m	fair good/ regen. good/ regen. good/ regen.	varies: 4-5				Ac [1]/ fair- old growth multi-trunk (2) spec./ ext. dead wood/ die-back (50%) vigorous new growth; native Ac regen./ <i>Lomandra</i> , <i>Dianella</i> spp.]; Bint- likely cultivated origin; Pu/ <i>Homalanthus</i> sp.	

												regrowth; dom. weeds [incl. <i>Hedera</i> , <i>Ligustrum</i> , <i>Rumex</i> , <i>Senna</i> , <i>Ochna</i> , <i>Asparagus</i> , <i>Cotoneaster</i> spp.].
41-43 The Tor Walk: rear garden/ steep slope/ scarp & rock outcrops to foreshore	s/s outcrops s/s scarp remnant community	10ag(i)						varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s scarp, rock outcrops & overhang adj. to foreshore; exotic garden/ highly modified; native ferns/ g/covers assoc.w. overhang [<i>Todea</i> , <i>Gleichenia</i> , <i>Wahlenbergia</i> spp.]; no remnant native canopy; gen. native planting; weeds; no access.
The Tor Walk - Road Reserves, Drainage Easements & Public Pedestrian Linkages:											Survey Date: 22 Apr-26 Apr 2013	
<i>Note: For listings in public reserve between 1A The Tor Walk & 304 Edinburgh Road [under construction] refer to Edinburgh Road - Public Reserves.</i>												
upper embankment: steep slope/ rock outcrops adj. to bdy. No.292 Edinburgh Rd [The Tor Walk frontage/ road reserve]	s/s outcrops s/s cutting tree group remnant community	10ag(i)	Ac [1] Epip [1] Epip [1] Epip [1]	80-100+ 60-80+ 80-100+ 80-100+	18m 9m 15m 15m	16m 10m 15m 12m	good see notes fair good	varies: 4-5 [mainly 5]	low	fragmented	T&BPO	significant s/s outcrops & road cutting; significant remnant native tree group/ highly fragmented & modified; Epip/ Ac group incl. 3X old growth specimens; Epip [1]/ see notes- multi-trunk spec./ leaning main stem; Epip [1]/ fair- open sparse canopy/ dead wood in crown; remnant natives [<i>Breynia</i> , <i>Pteridium</i> spp.]; Pu regrowth; dom. weeds [incl. <i>Senna</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Ageratina</i> , <i>Ipomoea</i> spp.].
lower embankment: road cutting below No. 292 Edinburgh Rd			Ac/ Fru	<5	up to 2m	<1m	good/ regen.					remnant native ferns [incl. <i>Gleichenia</i> , <i>Histiopteris</i> spp.]; native regen; dom. weeds.
<i>Note: For listings on corner embankment of The Tor Walk & Edinburgh Road refer to Edinburgh Road - Road Reserves, Drainage Easements & Public Pedestrian Linkages.</i>												
lower embankment: rock outcrops/ road cutting below Nos. 288 & 290 Edinburgh Rd [The Tor Walk- road reserve]	s/s outcrops s/s cutting	10ag(i)						5	low	restricted	T&BPO	significant s/s outcrops & road cutting; largely cleared & modified; remnant natives [<i>Gleichenia</i> sp.]; dom. weeds [as above]; Pu regrowth; gen. natives [<i>Cyathea</i> sp./ cultivated origin].
right-of-way adj. to bdy. Nos. 2, 4 & 4A The Tor Walk: embankment & rock outcrops [road reserve]	s/s outcrops single tree	10ag(i)	Ac [1] <i>Ac/ Epip/ Bs</i>	10-15+ <i><5</i>	1.5m <i>varies</i>	3m <i>varies</i>	good/lopped <i>good</i>	varies: 4-5 [mainly 5]	low	restricted	T&BPO	significant s/s outcrops/ steep embankment; Ac [1]- top of wall/ competition w. <i>Agonis</i> sp.; native ferns [<i>Calochlaena</i> sp.]; Pu regrowth; local & gen. native planting [Ac/ Epip/ Bs, <i>Acacia</i> spp.]; dom. weeds [incl. <i>Ligustrum</i> , <i>Lonicera</i> , <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Ipomoea</i> , <i>Rumex</i> spp.]; subject to bdy. survey; Er [1]- ext. die-back (95%)/ basal multi-stemmed [3] regrowth.
adj. to bdy. 4A The Tor Walk: cnr./ upper rock outcrops [northern side of right-of-way]	s/s outcrops tree group	10ar(i)	Ac [1] Al [1] Al [1] Er [1]	10-15+ 15-20+ 5-10+ 20-30+	1m 2m 3m 4m	1.5m 2m 3m 2m	poor/ lopped good/ lopped good v.poor					
embankment/ rock outcrops adj.	s/s outcrops	10ag(i)	Ac [1]	?100-150+	16m	16m	good	varies: 3-5	medium-low	restricted	T&BPO	significant s/s outcrops/ cutting; Ac [1]-

to cnr. & lower bdy. to No.8 The Tor Walk [southern side of right-of-way]/ upper slope	s/s cutting tree group remnant community		Ac [1] Gf/ Er Ac/ Era Al/ Ceg Epip [1] Bs Al	15-20+ up to 20-30+ <5 <5 20-30+ up to 5-10+ up to 10-15+	5m up to 5-6m up to 1.5m up to 1.5m 12m up to 3m up to 3-4m	4m up to 2-4m up to 1m up to 1m 10m up to 2m up to 3m	good good good/ regen. good/ regen. good good good	[mainly 5]				old growth, multi-trunk [2] spec./ some dead wood; remnant natives assoc.w. rock outcrops [<i>Crowea</i> , <i>Lomandra</i> , <i>Pteridium</i> , <i>Dodonaea</i> spp.]; weeds [<i>Senna</i> , <i>Ipomoea</i> , <i>Asparagus</i> spp.].
adj. to roadway edge												
embankment/ rock outcrops adj. to south-eastern bdy. No.8 & bdy. to No.14 The Tor Walk			Era [1] Ac [1] Ac [3] Ac [4]	15-20+ 80-100+ up to 20-30+ up to 15-20+	8m 12m up to 9m up to 5-8m	6m 12m up to 4-5m up to 3-4m	good poor good/ lopped good/ lopped	varies: 4-5 [mainly 5]	low	fragmented	Ac [1]/ poor- old growth spec./ sparse canopy; Ac x 7/ pruning for o'head power-lines; natives [<i>Acacia terminalis</i> , <i>Grevillea linearifolia</i> , <i>Acacia terminalis</i> , <i>Acacia linifolia</i> , <i>Dodonaea</i> , <i>Entolasia</i> , <i>Pteridium</i> , <i>Dianella</i> spp.]; restoration planting over-lay; Pu regrowth.	
adj. to steps/ bdy. to No.14			Gf/ Er Ceg [1] Era [1] ?Era [1]	up to 5-10+ 30-40+ 20-30+ 5-10+	up to 3-4m 6m 4m 4m	up to 2m 3m 6m 2m	good/ regrowth good v.poor good				Era [1]/ v.poor- 90% die-back/ ext. dead wood & lopping for o'head power-lines; ?Era [1]- possibly planted; remnant native ferns [<i>Sticherus</i> sp.]; <i>Banksia spinulosa</i> / <i>Imperata</i> spp./ Bint- cultivated origin; Pu regrowth; dom. weeds [incl. <i>Asparagus</i> , <i>Nephrolepis</i> , <i>Ipomoea</i> spp.].	
Note: Following listings refer to The Tor Walk right-of-way adjoining rear boundaries Nos. 276 & 278 Edinburgh Road and access to Nos. 6-30 [even numbers] The Tor Walk.												
right-of-way: The Tor Walk adj. to lower bdy. to Nos. 276 & 278 Edinburgh Road	single tree	10ag(i)	Ac [1]	15-20+	7m	3m	good	5	low	restricted	T&BPO	exotic garden; Ac [1]- on steep slope adj. to top of timber wall; generic native planting [Bint, <i>Angophora floribunda</i>].
right-of-way: adj. to bdy. No.18 The Tor Walk	s/s outcrops single tree remnant community		Cal [1]	?30-40+	2m	4m	good	varies: 4-5 [mainly 5]		isolated	remnant natives [<i>Calochlaena</i> sp.]; Pu regrowth; gen. native planting; weeds [<i>Asparagus</i> , <i>Nephrolepis</i> spp.].	