



arboricultural site audit - may 2021

207 forest way, belrose

28th May 2021

prepared by

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contents

1	Background	1
2	Site Inspections, & Audits	1
3	Conditions of Consent relating to Trees	2
4	Trees Identified as being Retained, Removed or Transplanted in DA2018/1332	3
5	Details of the Condition of Trees to be Retained Prior to Demolition and Construction	8
6	Works & Activity	14
6.1	February 2020	14
6.2	September 2020	15
6.3	October 2020	16
6.4	November 2020	16
6.5	May 2021	18
7	May 2021 Site Audit	20
7.1	Tree Audit Summary Table	20
7.1.1	Note A	22
7.2	Tree Protection Measures Audit	23
7.2.1	Note B	23
7.2.2	Note C	23
8	Compliance / Non-Compliance with Development Consent Conditions & Subsequent Plans	24
9	Arboricultural Recommendations Resulting from the May 2021 Site Inspection & Audit	25

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1 Background

Development Consent DA2018/1332 was granted on the 6th May 2020 for Demolition works and construction of major additions to Glenaeon Retirement Village, including self-contained dwellings and a new residential care facility on a neighbouring lot, with associated carparking, landscaping and public road modifications.

With regards to compliance with the Conditions of Consent and the Approved Stamped Plans, the following documents and plans remain current in relation to trees to be retained on and adjacent the site;

- Tree Protection Plan and Arboricultural Impact Assessment dated 31 July 2018 prepared by Footprint Green, and
- Subsequent Tree Protection Plan, dated 12th December 2019 (Footprint Green, 2019) prepared under Condition 21 of DA2018/1332

Currently we are unaware of any section 4.55 or 4.56 modification consents issued for this development that would affect the relevance of the above reports and plans.

It is noted that consent was provided by the Manager Tree Services Northern Beaches Council to remove the Cocos Palms, Tree No's 127-134 (refer email dated 25/03/20 - Manager Tree Services Northern Beaches Council to Senior Project Manager Lend Lease).

Amongst the conditions of consent, Condition 40 requires:

Condition 40 Project Arborist

1. *A Project Arborist with minimum qualification AQF Level 5 is to be appointed prior to commencement of works.*
2. *The Project Arborist is to oversee all tree protection measures, removals and works adjacent to protected trees as outlined in the approved Tree Protection Plan and Arboricultural Impact Assessment dated 31 July 2018 prepared by Footprint Green and the Arboricultural Impact Report dated 23 July 2018 prepared by Landscape Matrix and AS4970-2009 Protection of trees on development sites.*
3. *The Project Arborist is to ensure compliance as relevant with any other environmental requirements conditioned under this consent.*

2 Site Inspections, & Audits

To comply with Condition 40 of the development consent, the site was inspected on:

- 20th February 2020;
- 28th September 2020;
- 29th September 2020;
- 26th October 2020;
- 12th November 2020;

This site audit is based on inspections carried out on the:

- 24th May 2021

3 Conditions of Consent relating to Trees

The following table lists some of the more relevant conditions relating to trees in Development Consent DA2018/1332

Consent Condition No.	Condition Requirements
21	<p>Tree Protection Plan</p> <p>In order to protect and enhance onsite vegetation and trees the following applies to the development site:</p> <p>(a) A Tree Protection Plan prepared by a AQF Level 5 Arborist (or equivalent) showing the following:</p> <ul style="list-style-type: none"> • Layout of the approved development • Location of trees identified for retention • Extent of canopy spread • Location of tree protection fencing barriers (fencing in accordance with AS2470- 2009) • General tree protection measures <p>(b) The Tree Protection Plan is to be submitted to the Principal Certifying Authority for approval prior to issue of a Construction Certificate.</p> <p>(c) Tree protection measures identified on the plan are to be in place prior to commencement of works.</p>
39	<p>Tree Protection</p> <p>(a) Existing trees which must be retained</p> <ol style="list-style-type: none"> All trees not indicated for removal on the approved plans, unless exempt under relevant planning instrument; Trees located on adjoining land; all road reserve trees and vegetation. <p>(b) Tree protection measures:</p> <ol style="list-style-type: none"> No tree roots greater than 30mm diameter are to be cut from protected trees unless authorised All structures are to bridge tree roots greater than 30mm diameter unless directed otherwise b All tree protection is to be in accordance with the Arboricultural Impact Report dated 23 July 2 The tree protection measures specified in this clause must: <ol style="list-style-type: none"> be in place before work commences on the site, and be maintained in good condition during the construction period, and remain in place for the duration of the construction works. No excavated material, building material storage, site facilities, or landscape materials are to All tree pruning within the subject site is to be in accordance with the relevant Development Consent any tree roots exposed during excavation with a diameter greater than 30mm within the Tree
40	<p>Project Arborist</p> <ol style="list-style-type: none"> A Project Arborist with minimum qualification AQF Level 5 is to be appointed prior to commencement of works. The Project Arborist is to oversee all tree protection measures, removals and works adjacent to protected trees as outlined in the approved Tree Protection Plan and Arboricultural Impact Assessment dated 31 July 2018 prepared by Footprint Green and the Arboricultural Impact Report dated 23 July 2018 prepared by Landscape Matrix and AS4970-2009 Protection of trees on development sites. The Project Arborist is to ensure compliance as relevant with any other environmental requirements conditioned under this consent.
70	<p>Condition of retained vegetation</p> <p>Prior to the issue of an Occupation Certificate, a report prepared by the Project Arborist shall be submitted to the Certifying Authority assessing the health and impact of trees and vegetation required to be retained as a result of the proposed development, including the following information:</p> <ol style="list-style-type: none"> Compliance to Arborist recommendations for tree protection and excavation works. Extent of damage sustained by vegetation as a result of the construction works. Any subsequent remedial works required to ensure the long-term retention of the vegetation.

4 Trees Identified as being Retained, Removed or Transplanted in DA2018/1332

The following table lists the trees to be retained or transplanted as per the approved Tree Protection Plan and Arboricultural Impact Assessment dated 31 July 2018 prepared by Footprint Green as noted in Condition 40 of the development consent and any subsequent tree removal approved by Northern Beaches Council.

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	On / Off Site	Development Consent Status
1	<i>Acacia parramattensis</i>	Sydney Green Wattle	7	3	120	To be Removed	On site
2	<i>Acacia parramattensis</i>	Sydney Green Wattle	8	3	80	To be Removed	On site
3	<i>Acacia parramattensis</i>	Sydney Green Wattle	9	5	200	To be Removed	On site
4	<i>Ceratopetalum gummiferum</i>	Christmas Bush	5	2	100	To be Removed	On site
5	<i>Ceratopetalum gummiferum</i>	Christmas Bush	8	4	160	To be Removed	On site
6	<i>Ceratopetalum gummiferum</i>	Christmas Bush	9	4	220	To be Removed	On site
7	<i>Jacaranda mimosifolia</i>	Jacaranda	7	4	120	To be Removed	On site
8	<i>Ceratopetalum gummiferum</i>	Christmas Bush	7	3	150	Retained	On site
9	<i>Angophora costata</i>	Sydney Red Gum	11	8	370	Retained	On site
10	<i>Eucalyptus haemastoma</i>	Scribbly Gum	8	5	290	Retained	On site
11	<i>Eucalyptus piperita</i>	Sydney Peppermint	12	14	730	Retained	On site
12	<i>Corymbia gummifera</i>	Red Bloodwood	8	9	350	Retained	On site
13	<i>Corymbia gummifera</i>	Red Bloodwood	12	11	420	Retained	On site
14	<i>Eucalyptus sp.</i>	-	11	0	350	To be Removed	On site
15	<i>Eucalyptus piperita</i>	Sydney Peppermint	16	12	1*520, 1*580	Retained	On site
16	<i>Eucalyptus piperita</i>	Sydney Peppermint	15	10	540	Retained	On site
17	<i>Eucalyptus piperita</i>	Sydney Peppermint	16	14	860	Retained	On site
18	<i>Angophora costata</i>	Sydney Red Gum	9	5	220	Retained	On site
19	<i>Eucalyptus piperita</i>	Sydney Peppermint	11	11	240	Retained	On site
20	<i>Banksia serrata</i>	Old Man Banksia	5	5	350	Retained	On site
21	<i>Angophora costata</i>	Sydney Red Gum	13	12	370	To be Removed	On site
22	<i>Angophora costata</i>	Sydney Red Gum	12	6	480	To be Removed	On site
23	<i>Angophora costata</i>	Sydney Red Gum	8	8	300	Retained	On site
24	<i>Eucalyptus piperita</i>	Sydney Peppermint	1	6	200	Retained	On site
25	<i>Angophora costata</i>	Sydney Red Gum	18	17	810	Retained	On site
26	<i>Angophora costata</i>	Sydney Red Gum	10	8	760	Retained	On site
27	<i>Angophora costata</i>	Sydney Red Gum	20	18	540	Retained	On site
28	<i>Eucalyptus piperita</i>	Sydney Peppermint	9	5	1*630, 1*550	To be Removed	On site
29	<i>Callicoma serratifolia</i>	Black Wattle	6	4	180	Retained	On site
30	<i>Ligustrum lucidum</i>	Large Leaf Privet	11	9	320	To be Removed	On site
31	<i>Eucalyptus piperita</i>	Sydney Peppermint	11	4	1*430, 1*220, 1*490	To be Removed	On site
32	<i>Ceratopetalum gummiferum</i>	Christmas Bush	9	3	140	To be Removed	On site
33	<i>Angophora costata</i>	Sydney Red Gum	16	14	570	To be Removed	On site

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	On / Off Site	Development Consent Status
34	<i>Eucalyptus sp.</i>	-	6	4	1*270, 1*140	Retained	On site
35	<i>Angophora costata</i>	Sydney Red Gum	11	5	220	Retained	On site
36	<i>Angophora costata</i>	Sydney Red Gum	12	6	1*250, 1*100	Retained	On site
37	<i>Corymbia gummifera</i>	Red Bloodwood	7	2	1*100, 1*90	Retained	On site
38	<i>Eucalyptus piperita</i>	Sydney Peppermint	13	11	710	Retained	On site
39	<i>Eucalyptus piperita</i>	Sydney Peppermint	5	5	220	Retained	On site
40	<i>Angophora costata</i>	Sydney Red Gum	14	12	650	Retained	On site
41	<i>Angophora costata</i>	Sydney Red Gum	12	10	400	Retained	On site
42	<i>Angophora costata</i>	Sydney Red Gum	14	11	530	To be Removed	On site
43	<i>Corymbia gummifera</i>	Red Bloodwood	10	3	330	Retained	On adjacent allotment
44	<i>Angophora costata</i>	Sydney Red Gum	12	9	460	To be Removed	On site
45	<i>Callitris rhomboidea</i>	Port Jackson Pine	8	2	220	Retained	On site
46	<i>Eucalyptus piperita</i>	Sydney Peppermint	14	13	1*510, 1*480	To be Removed	On site
47	<i>Banksia serrata</i>	Old Man Banksia	5	2	130	To be Removed	On site
48	<i>Callitris rhomboidea</i>	Port Jackson Pine	12	3	1*40, 1*60, 1*180	Retained	On site
49	<i>Callitris rhomboidea</i>	Port Jackson Pine	8	2	100	Retained	On site
50	<i>Angophora costata</i>	Sydney Red Gum	13	11	1*230, 1*130	Retained	On site
51	<i>Banksia serrata</i>	Old Man Banksia	4	3	1*100, 1*170	Retained	On site
52	<i>Angophora costata</i>	Sydney Red Gum	11	12	250	Retained	On site
53	<i>Corymbia gummifera</i>	Red Bloodwood	14	11	420	Retained	On site
54	<i>Banksia serrata</i>	Old Man Banksia	5	4	210	Retained	On site
55	<i>Eucalyptus piperita</i>	Sydney Peppermint	17	16	740	To be Removed	On site
56	<i>Acer negundo</i>	Box Elder	11	6	200	To be Removed	On site
57	<i>Angophora costata</i>	Sydney Red Gum	8	3	70	To be Removed	On site
58	<i>Angophora costata</i>	Sydney Red Gum	20	13	430	To be Removed	On site
59	<i>Allocasuarina littoralis</i>	Black She-oak	11	8	310	To be Removed	On site
60	<i>Corymbia gummifera</i>	Red Bloodwood	12	3	2*190	To be Removed	On site
61	<i>Angophora costata</i>	Sydney Red Gum	13	8	230	To be Removed	On site
62	<i>Corymbia gummifera</i>	Red Bloodwood	11	3	160	To be Removed	On site
63	<i>Angophora costata</i>	Sydney Red Gum	12	5	200	To be Removed	On site
64	<i>Corymbia gummifera</i>	Red Bloodwood	6	5	100	To be Removed	On site
65	<i>Corymbia gummifera</i>	Red Bloodwood	6	2	1*30, 1*90	To be Removed	On site
66	<i>Banksia serrata</i>	Old Man Banksia	5	4	190	To be Removed	On site
67	<i>Corymbia gummifera</i>	Red Bloodwood	9	4	210	Retained	On adjacent allotment
68	<i>Angophora costata</i>	Sydney Red Gum	12	10	320	To be Removed	On site
69	<i>Eucalyptus sp.</i>	-	11	9	240	Retained	On site
70	<i>Acacia decurrens</i>	Black Wattle	15	12	1*500, 1*490	Retained	On adjacent allotment
71	<i>Acer negundo</i>	Box Elder	11	3	120	To be Removed	On site

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	On / Off Site	Development Consent Status
72	<i>Acer negundo</i>	Box Elder	10	4	100	To be Removed	On site
73	<i>Acer negundo</i>	Box Elder	11	3	140	To be Removed	On site
74	<i>Acer negundo</i>	Box Elder	12	4	180	To be Removed	On site
75	<i>Acer negundo</i>	Box Elder	12	5	180	To be Removed	On site
76	<i>Acer negundo</i>	Box Elder	11	5	210	To be Removed	On site
77	<i>Angophora costata</i>	Sydney Red Gum	14	9	420	Retained	On site
78	<i>Callicoma serratifolia</i>	Black Wattle	8	4	110	Retained	On site
79	<i>Callicoma serratifolia</i>	Black Wattle	5	2	1*100, 1*20, 1*30	Retained	On site
80	<i>Callicoma serratifolia</i>	Black Wattle	5	2	1*100, 1*40	Retained	On site
81	<i>Eucalyptus piperita</i>	Sydney Peppermint	20	16	840	Retained	On site
82	<i>Allocasuarina littoralis</i>	Black She-oak	10	4	170	To be Removed	On site
83	<i>Pinus pinaster</i>	Maritime Pine	23	12	510	To be Removed	On site
84	<i>Schefflera actinophylla</i>	Umbrella Tree	7	7	3*180, 5*60, 2*40	Retained	On site
85	<i>Schefflera actinophylla</i>	Umbrella Tree	7	3	1*100, 1*180	Retained	On site
86	<i>Schefflera actinophylla</i>	Umbrella Tree	9	5	1*260, 2*100, 1*200	Retained	On site
87	<i>Eucalyptus piperita</i>	Sydney Peppermint	14	15	1*650, 1*200	To be Removed	On site
88	<i>Angophora costata</i>	Sydney Red Gum	7	4	140	Retained	On site
89	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	4	1*80, 1*110, 1*50, 2*40	Retained	On site
90	<i>Eucalyptus sp.</i>	-	16	10	370	Retained	On site
91	<i>Angophora costata</i>	Sydney Red Gum	9	3	180	Retained	On site
92	<i>Ceratopetalum gummiferum</i>	Christmas Bush	8	3	120	Retained	On site
93	<i>Corymbia gummifera</i>	Red Bloodwood	9	3	110	Retained	On site
94	<i>Angophora costata</i>	Sydney Red Gum	11	9	400	Retained	On site
95	<i>Eucalyptus sp.</i>	-	15	10	330	Retained	On site
96	<i>Angophora costata</i>	Sydney Red Gum	11	7	340	Retained	On site
97	<i>Callistemon viminalis</i>	Weeping Bottlebrush	6	6	1*190, 1*150	To be Removed	On site
98	<i>Melaleuca quinquenervia</i>	Paperbark	7	6	1*260, 1*170	To be Removed	On site
99	<i>Michelia figo</i>	Port Wine Magnolia	5	5	2*150, 1*120	To be Removed	On site
100	<i>Cyathea cooperi</i>	Straw Treefern	9	4	290	To be Removed	On site
101	<i>Cyathea cooperi</i>	Straw Treefern	9	3	130	To be Removed	On site
102	<i>Citrus limon</i>	Lemon Tree	3	4	1*30, 2*40	To be Removed	On site
103	<i>Callistemon viminalis</i>	Weeping Bottlebrush	4	4	120	To be Removed	On site
104	<i>Livistona chinensis</i>	Chinese Cabbage/Fan Palm	4	3	300	To be Removed	On site
105	<i>Corymbia gummifera</i>	Red Bloodwood	5	3	100	Retained	On site
106	<i>Callistemon viminalis</i>	Weeping Bottlebrush	7	4	200	Retained	On site
107	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	3	1*60, 1*30, 1*80	Retained	On site
108	<i>Casuarina glauca</i>	Swamp Oak	14	7	400	Retained	On adjacent allotment
109	<i>Casuarina glauca</i>	Swamp Oak	14	8	500	Retained	On site

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	On / Off Site	Development Consent Status
110	<i>Cupressus sp.</i>	Cypress	10	8	360	Retained	On site
111	<i>Leptospermum laevigatum</i>	Coast Tea Tree	5	5	220	Retained	On site
112	<i>Acacia fimbriata</i>	Fringed Wattle	6	4	200	Retained	On site
113	<i>Acacia fimbriata</i>	Fringed Wattle	4	4	2*60, 2*40	Retained	On site
114	<i>Allocasuarina sp.</i>		12	5	210	Retained	On adjacent allotment
115	<i>Callistemon viminalis</i>	Weeping Bottlebrush	6	6	2*180, 1*160, 1*140, 3*80	To be Removed	On site
116	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	4	1*200, 1*180, 1*60	To be Removed	On site
117	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	3	140	Retained	On adjacent allotment
118	<i>Callistemon viminalis</i>	Weeping Bottlebrush	6	4	1*160, 1*140, 1*40	To be Removed	On site
119	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	3	1*190, 1*110	Retained	On adjacent allotment
120	<i>Callistemon viminalis</i>	Weeping Bottlebrush	6	4	1*100, 1*80, 3*60	To be Removed	On site
121	<i>Callistemon viminalis</i>	Weeping Bottlebrush	6	3	2*100, 1*130, 3*80	To be Removed	On site
122	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	3	2*80, 1*90, 1*100	To be Removed	On site
123	<i>Schinus molle var. areira</i>	Peppercorn Tree	5	4	1*250, 1*200	To be Removed	On site
124	<i>Callistemon 'Captain Cook'</i>	Captain Cook Bottlebrush	5	5	1*140, 1*100, 1*190, 2*130	To be Removed	On site
125	<i>Salix humboldtiana</i>	Chilean Willow	5	1	280	To be Removed	Within road reserve
126	<i>Angophora costata</i>	Sydney Red Gum	9	9	1*230, 1*200	Retained	On site
127	<i>Syagrus romanzoffianum</i>	Cocos Palm	12	7	300	To be Removed (refer email 25/03/20 - Manager Tree Services Northern Beaches Council to Senior Project Manager Lend Lease)	Within road reserve
128	<i>Syagrus romanzoffianum</i>	Cocos Palm	13	7	360		Within road reserve
129	<i>Syagrus romanzoffianum</i>	Cocos Palm	12	5	240		Within road reserve
130	<i>Syagrus romanzoffianum</i>	Cocos Palm	10	5	200		Within road reserve
131	<i>Syagrus romanzoffianum</i>	Cocos Palm	13	5	280		Within road reserve
132	<i>Syagrus romanzoffianum</i>	Cocos Palm	13	5	210		Within road reserve
133	<i>Syagrus romanzoffianum</i>	Cocos Palm	13	5	300		Within road reserve
134	<i>Syagrus romanzoffianum</i>	Cocos Palm	12	4	220		On site
135	<i>Schinus molle var. areira</i>	Peppercorn Tree	6	5	220	To be Removed	On site
136	<i>Schinus molle var. areira</i>	Peppercorn Tree	5	4	250	To be Removed	On site
137	<i>Angophora costata</i>	Sydney Red Gum	15	14	510	To be Removed	On site
138	<i>Angophora costata</i>	Sydney Red Gum	14	9	400	To be Removed	On site
139	<i>Angophora costata</i>	Sydney Red Gum	11	8	200	To be Removed	On site
140	<i>Banksia integrifolia</i>	Coastal Banksia	6	3	180	To be Removed	On site
141	<i>Syagrus romanzoffianum</i>	Cocos Palm	11	4	250	To be Removed	On site
142	<i>Syagrus romanzoffianum</i>	Cocos Palm	9	4	180	To be Removed	On site
143	<i>Syagrus romanzoffianum</i>	Cocos Palm	11	5	270	To be Removed	On site
144	<i>Syagrus romanzoffianum</i>	Cocos Palm	9	5	250	To be Removed	On site
145	<i>Eucalyptus sp.</i>	-	16	20	800	To be Removed	On site
146	<i>Livistona chinensis</i>	Chinese Cabbage/Fan Palm	4	3	330	To be Removed	On site
147	<i>Livistona chinensis</i>	Chinese Cabbage/Fan Palm	5	5	400	To be Removed	On site

Tree No	Genus Species	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	On / Off Site	Development Consent Status
148	<i>Livistona chinensis</i>	Chinese Cabbage/Fan Palm	5	4	320	To be Removed	On site
149	<i>Sapium sebiferum</i>	Chinese Tallow	5	4	2*120, 1*60	To be Removed	On site
150	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	3	1*180, 1*20	To be Removed	On site
151	<i>Sapium sebiferum</i>	Chinese Tallow	8	9	410	To be Removed	On site
152	<i>Gleditsia sp.</i>	Gleditsia	5	4	220	To be Removed	On site
153	<i>Elaeocarpus reticulatus</i>	Blueberry Ash	7	2	100	To be Removed	On site
154	<i>Jacaranda mimosifolia</i>	Jacaranda	6	6	1*210, 1*200, 1*80	To be Removed	On site
155	<i>Elaeocarpus reticulatus</i>	Blueberry Ash	6	2	60	To be Removed	On site
156	<i>Gleditsia sp.</i>	Gleditsia	7	6	1*160, 1*190	To be Removed	On site
157	<i>Sapium sebiferum</i>	Chinese Tallow	5	4	2*200	To be Removed	On site
158	<i>Callistemon viminalis</i>	Weeping Bottlebrush	3	3	2*30	To be Removed	On site
159	<i>Callistemon viminalis</i>	Weeping Bottlebrush	4	3	3*60	To be Removed	On site
160	<i>Callistemon viminalis</i>	Weeping Bottlebrush	4	3	1*80, 1*40	To be Removed	On site
161	<i>Banksia integrifolia</i>	Coastal Banksia	4	3	1*20, 1*130, 1*50	To be Removed	On site
162	<i>Callistemon viminalis</i>	Weeping Bottlebrush	4	3	1*120, 2*100, 1*20	To be Removed	On site
163	<i>Callistemon viminalis</i>	Weeping Bottlebrush	4	3	2*80	To be Removed	On site
164	<i>Callistemon viminalis</i>	Weeping Bottlebrush	4	3	1*120, 1*60, 1*80	To be Removed	On site
165	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	3	1*100, 2*110	To be Removed	On site
166	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	3	1*80, 1*100	To be Removed	On site
167	<i>Ulmus parvifolia</i>	Chinese Weeping Elm	8	8	360	To be Removed	On site
168	<i>Banksia integrifolia</i>	Coastal Banksia	4	7	250	Retained	On site
169	<i>Angophora costata</i>	Sydney Red Gum	13	12	1*330, 1*410	To be Removed	On site
170	<i>Eucalyptus capitellata</i>	Brown Stringybark	7	8	1*120, 1*240	Retained	On site
171	<i>Eucalyptus piperita</i>	Sydney Peppermint	14	9	1*120, 1*320	To be Removed	On site
172	<i>Eucalyptus piperita</i>	Sydney Peppermint	14	9	280	To be Removed	On site
173	<i>Eucalyptus piperita</i>	Sydney Peppermint	15	14	1*480, 1*620, 1*200	Retained	On site
174	<i>Corymbia gummifera</i>	Red Bloodwood	6	4	320	Retained	On site

5 Details of the Condition of Trees to be Retained Prior to Demolition and Construction

The following table is an assessment of the condition of the trees to be retained prior to demolition and construction as of March 2020.

Tree No	Scientific Name	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Condition	Foliage Condition	% Canopy Dead Wood	Pest & Disease	SULE	On / off site
8	<i>Ceratopetalum gummiferum</i>	Christmas Bush	7	3	150	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On site
9	<i>Angophora costata</i>	Sydney Red Gum	11	8	370	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Excellent	<5%	None evident	1	On site
10	<i>Eucalyptus haemastoma</i>	Scribbly Gum	8	5	290	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	Lower branch fractures on the south eastern side. Basal decay on the eastern side from ground level to 0.8m.	1	On site
11	<i>Eucalyptus piperita</i>	Sydney Peppermint	12	14	730	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	The tree has an open cavity at 2m on eastern side.	2	On site
12	<i>Corymbia gummifera</i>	Red Bloodwood	8	9	350	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	1	On site
13	<i>Corymbia gummifera</i>	Red Bloodwood	12	11	420	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site
14	<i>Eucalyptus sp.</i>	-	11	0	350	The tree is dead	None	100%	The tree is dead	Unstable	On site
15	<i>Eucalyptus piperita</i>	Sydney Peppermint	16	12	520, 580	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	Large sections of tree root extends 3.5m over the escarpment	1	On site
16	<i>Eucalyptus piperita</i>	Sydney Peppermint	15	10	540	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	The tree has slightly reduced leaf size and canopy cover.	1	On site
17	<i>Eucalyptus piperita</i>	Sydney Peppermint	16	14	860	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	Several leaders are dead and minor epicormic growth and deadwood is evident There is a small cavity opening at 2.5 metres on north western side, around a branch stub.	1	On site
18	<i>Angophora costata</i>	Sydney Red Gum	9	5	220	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site
19	<i>Eucalyptus piperita</i>	Sydney Peppermint	11	11	240	The tree stability is suspect and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	Previously burnt and a wound is evident from ground level to 2.5 metres on north western side of trunk. Twiggy deadwood is present throughout the canopy.	Unstable	On site

Tree No	Scientific Name	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Condition	Foliage Condition	% Canopy Dead Wood	Pest & Disease	SULE	On / off site
20	<i>Banksia serrata</i>	Old Man Banksia	5	5	350	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree has twiggy deadwood in the upper canopy	2	On site
23	<i>Angophora costata</i>	Sydney Red Gum	8	8	300	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site
24	<i>Eucalyptus piperita</i>	Sydney Peppermint	1	6	200	The tree stability is suspect and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	10%	The tree has failed at ground level and uplifted at the base.	Unstable	On site
25	<i>Angophora costata</i>	Sydney Red Gum	18	17	810	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	10%	None evident	1	On site
26	<i>Angophora costata</i>	Sydney Red Gum	10	8	760	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in poor health and displays fair vigour.	Good	15%	There is evidence of termite decay and fungal growth at the base. The tree has an extensive wound on southern side from ground level to 2m where it has failed above that point.	Unstable	On site
27	<i>Angophora costata</i>	Sydney Red Gum	20	18	540	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	15%	The tree has twiggy deadwood in the upper canopy	1	On site
29	<i>Callicoma serratifolia</i>	Black Wattle	6	4	180	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays good vigour.	Fair	10%	None evident	2	On site
34	<i>Eucalyptus sp.</i>	-	6	4	270, 140	The tree appears stable and its branch attachment appears fair. The tree is considered to be in good health and displays good vigour.	Good	10%	The tree has twiggy deadwood in the upper canopy and a bark inclusion 0.2m.	2	On site
35	<i>Angophora costata</i>	Sydney Red Gum	11	5	220	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On site
36	<i>Angophora costata</i>	Sydney Red Gum	12	6	250, 100	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	The foliage has reduced leaf size.	1	On site
37	<i>Corymbia gummifera</i>	Red Bloodwood	7	2	100, 90	The tree appears stable and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Poor	40%	The northern leader is dead.	4	On site
38	<i>Eucalyptus piperita</i>	Sydney Peppermint	13	11	710	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in poor health and displays fair vigour.	Good	10%	The tree has extensive decay and cavity from base to 5m, on northern side and a termite nest is evident.	Unstable	On site
39	<i>Eucalyptus piperita</i>	Sydney Peppermint	5	5	220	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be in poor health and displays poor vigour.	Fair	30%	The tree has decay at base where it has been burnt. Only one live leader remains.	Unstable	On site
40	<i>Angophora costata</i>	Sydney Red Gum	14	12	650	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	1	On site

Tree No	Scientific Name	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Condition	Foliage Condition	% Canopy Dead Wood	Pest & Disease	SULE	On / off site
41	<i>Angophora costata</i>	Sydney Red Gum	12	10	400	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree appears to be suppressed by the adjacent vegetation and a dead branch stub is evident on the northern side at 3.5m.	1	On site
43	<i>Corymbia gummifera</i>	Red Bloodwood	10	3	330	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be dead and displays no signs of any vigour.	None	100%	The tree is dead	Unstable	On adjacent allotment
45	<i>Callitris rhomboidea</i>	Port Jackson Pine	8	2	220	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	20%	None evident	2	On site
48	<i>Callitris rhomboidea</i>	Port Jackson Pine	12	3	40, 60, 180	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site
49	<i>Callitris rhomboidea</i>	Port Jackson Pine	8	2	100	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site
50	<i>Angophora costata</i>	Sydney Red Gum	13	11	230, 130	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	1	On site
51	<i>Banksia serrata</i>	Old Man Banksia	4	3	100, 170	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site
52	<i>Angophora costata</i>	Sydney Red Gum	11	12	250	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On site
53	<i>Corymbia gummifera</i>	Red Bloodwood	14	11	420	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	There is evidence of a limb failure at 9m.	1	On site
54	<i>Banksia serrata</i>	Old Man Banksia	5	4	210	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On site
67	<i>Corymbia gummifera</i>	Red Bloodwood	9	4	210	The tree appears stable and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Poor	40%	The tree has a dead leader at 4m,	4	On adjacent allotment
69	<i>Eucalyptus sp.</i>	-	11	9	240	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree has twiggy deadwood in the upper canopy and reduced leaf size.	2	On site
70	<i>Acacia decurrens</i>	Black Wattle	15	12	500, 490	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	25%	Northern trunk has a bark inclusion at 3m. Southern trunk has 40% deadwood with kino present.	3	On adjacent allotment
77	<i>Angophora costata</i>	Sydney Red Gum	14	9	420	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	The tree has a bowed trunk out at base to the northeast and is growing on the top of a rock ledge.	1	On site

Tree No	Scientific Name	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Condition	Foliage Condition	% Canopy Dead Wood	Pest & Disease	SULE	On / off site
78	<i>Callicoma serratifolia</i>	Black Wattle	8	4	110	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Good	15%	The tree has Honeysuckle growing into the canopy.	3	On site
79	<i>Callicoma serratifolia</i>	Black Wattle	5	2	100, 20, 30	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	15%	There is evidence of splits in the lower trunk.	4	On site
80	<i>Callicoma serratifolia</i>	Black Wattle	5	2	100, 40	The tree appears stable and its branch attachment appears fair. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	None evident	3	On site
81	<i>Eucalyptus piperita</i>	Sydney Peppermint	20	16	840	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in moderate health and displays good vigour.	Very Good	10%	There is a large wound in northern trunk from ground level to 2m and a moderate bark inclusion in the main junction at 2m. Termite activity is also evident.	3	On site
84	<i>Schefflera actinophylla</i>	Umbrella Tree	7	7	180, 180, 60, 60, 70	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site
85	<i>Schefflera actinophylla</i>	Umbrella Tree	7	3	100, 180	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	2	On site
86	<i>Schefflera actinophylla</i>	Umbrella Tree	9	5	260, 100, 100, 200	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site
88	<i>Angophora costata</i>	Sydney Red Gum	7	4	140	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site
89	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	4	80, 110, 50, 40, 40	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	2	On site
90	<i>Eucalyptus sp.</i>	-	16	10	370	The tree has failed at the base and no longer exists	-	-	The tree no longer exists.	-	On site
91	<i>Angophora costata</i>	Sydney Red Gum	9	3	180	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site
92	<i>Ceratopetalum gummiferum</i>	Christmas Bush	8	3	120	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	1	On site
93	<i>Corymbia gummifera</i>	Red Bloodwood	9	3	110	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site
94	<i>Angophora costata</i>	Sydney Red Gum	11	9	400	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	<5%	None evident	1	On site

Tree No	Scientific Name	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Condition	Foliage Condition	% Canopy Dead Wood	Pest & Disease	SULE	On / off site
95	<i>Eucalyptus sp.</i>	-	15	10	330	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On site
96	<i>Angophora costata</i>	Sydney Red Gum	11	7	340	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Fair	5%	The tree has swelling in the basal area and the branching is predominately epicormic growth.	2	On site
105	<i>Corymbia gummifera</i>	Red Bloodwood	5	3	100	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	2	On site
106	<i>Callistemon viminalis</i>	Weeping Bottlebrush	7	4	200	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On site
107	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	3	60, 30, 80	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	5%	None evident	2	On site
108	<i>Casuarina glauca</i>	Swamp Oak	14	7	400	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	1	On adjacent allotment
109	<i>Casuarina glauca</i>	Swamp Oak	14	8	500	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	<5%	None evident	1	On site
110	<i>Cupressus sp.</i>	Cypress	10	8	360	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be dead and displays no signs of any vigour.	None	100%	The tree is dead	Unstable	On site
111	<i>Leptospermum laevigatum</i>	Coast Tea Tree	5	5	220	The tree stability is suspect and its branch attachment appears poor. The tree is considered to be dead and displays no signs of any vigour.	Good	100%	The tree is dead.	Unstable	On site
112	<i>Acacia fimbriata</i>	Fringed Wattle	6	4	200	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	3	On site
113	<i>Acacia fimbriata</i>	Fringed Wattle	4	4	60, 60, 40, 40	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	3	On site
114	<i>Allocasuarina sp.</i>		12	5	210	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	10%	None evident	3	On adjacent allotment
117	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	3	140	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On adjacent allotment
119	<i>Callistemon viminalis</i>	Weeping Bottlebrush	5	3	190, 110	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	5%	None evident	2	On adjacent allotment

Tree No	Scientific Name	Common Name	Height (m)	Canopy Spread (m)	DBH (mm)	Condition	Foliage Condition	% Canopy Dead Wood	Pest & Disease	SULE	On / off site
126	<i>Angophora costata</i>	Sydney Red Gum	9	9	230, 200	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	There is a large surface root evident running along the adjacent wall. The tree has sparse thinning canopy, with reduced leaf size. It appears that third trunk on eastern side has failed leaving a wound area.	1	On site
168	<i>Banksia integrifolia</i>	Coastal Banksia	4	7	250	The tree appears stable and its branch attachment appears sound. The tree is considered to be in moderate health and displays fair vigour.	Fair	5%	There are wounds on south eastern branches.	2	On site
170	<i>Eucalyptus capitellata</i>	Brown Stringybark	7	8	120, 240	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Good	10%	None evident	1	On site
173	<i>Eucalyptus piperita</i>	Sydney Peppermint	15	14	480, 620, 200	The tree appears stable and its branch attachment appears sound. The tree is considered to be in good health and displays good vigour.	Very Good	15%	None evident	1	On site
174	<i>Corymbia gummifera</i>	Red Bloodwood	6	4	, 320	The tree displays some signs of instability and its branch attachment appears fair. The tree is considered to be in poor health and displays poor vigour.	Poor	40%	The tree has a trunk hollow at 3m.	3	On site

6 Works & Activity

6.1 February 2020

No demolition or construction works had commenced.

To assist with compliance with the conditions of consent the trees were tagged on site with a metal disc with the tree reference number corresponding to the tree reference numbers used in the Arboricultural Impact Assessment dated 31st July 2018 prepared by Footprint Green, and subsequent Tree Protection Plan (Footprint Green) dated 12th December 2019 prepared under Condition 21 of DA2018/1332

The trees were also tagged with:

- green surveyors tape identifying those tree to be retained, and
- pink surveyors tape identifying trees to be removed.



Figure 6.1 Installed tree tags with tree reference numbers of trees to be RETAINED



Figure 6.2 Installed tree tags with tree reference numbers of trees to be REMOVED

6.2 September 2020

Tree removal commenced on the 28th September 2020 within the developed areas of the site and within the portion of the unmade road reserve at the rear of 199 Forest Way under arboricultural supervision.



Figure 6.3 Clearing of vegetation within the unmade road reserve at the rear of 199 Forest Way, Belrose.



Figure 6.4 Tree removal on the site as of 29/09/20.

6.3 October 2020

Installation of the Tree Protection Fencing and signage commenced in September 2020 and was completed in October 2020.



Figure 6.5 Tree Protection Fencing as of 26/10/20.

A temporary access pathway leading to the site office was constructed adjacent Tree No's 113, 114, 117 & 119 which required pruning of 1 of the leaders on Tree No. 119.

6.4 November 2020

Demolition works has commenced along with the removal of a sandstone block feature wall at the entrance to the site. During a storm event over the weekend 31st October & 1st November 2020, Tree No. 126 failed at the base.



Figure 6.6 Tree No. 126 failed at the base during a storm event on 31/10-20 - 01/11/20 (photo provided by Lend Lease).

On the 30th November 2020, one of the main leaders of Tree No. 113 failed in a storm event and subsequently failed at the base. There was evidence of borer activity which is likely to have contributed to the failures.



Figure 6.7 Tree No. 113 with a failed leader during a storm event on 30/11/20.



Figure 6.8 Tree No. 113 subsequently failed at the base with signs of borer activity.

6.5 May 2021

Construction activity was primarily associated with excavation for the lower levels of the main buildings along with installation of services.



Figure 6.10 Excavation works associated with the lower levels of the main buildings as of 24/05/21.

The site was inspected on the 17th, 20th & 24th May 2021 to oversee the removal of trees within the bushfire Asset Protection Zone (APZ) as per Condition 40 of development consent DA2018/1332.

The trees to be removed were again tagged with pink surveyor's tape. In addition to the pink tape, blue surveyors tape was used to identify the trees to be removed that contained tree hollows and potential fauna habitat. The trees with hollows were inspected by the project ecologist for fauna occupation prior to their removal.



Figure 6.10 Trees identified for removal with pink banding tape with additional blue tape for trees with habitat hollows as of 17th May 2021.

The tree removal was completed on the 28th May 2021 removing Trees No's 14, 21, 22, 28, 30, 31, 32, 33, 42, 44, 46, 47, 56, 59, 60, 61, 62, 64, 71, 72, 73, 74, 75, 76, 82, 83, 84, 85, 86, 87, 97, 171 & 172. All of these trees were identified as being removed as part of DA2018/1332



Figure 6.11 The stump remains of Tree No. 28 after tree removal works as of 28th May 2021.

It was noted that the trunk of Tree No. 65 had failed at approximately 1.2m several months ago where decay was evident in the trunk. Tree No. 65 was identified as being removed as part of DA2018/1332.



Figure 6.12 The remains of Tree No. 65 which appears to have failed several months ago with evidence of decay in the remaining stump as of 28th May 2021.

7 May 2021 Site Audit

7.1 Tree Audit Summary Table

The following table outlines the findings of an audit of the trees identified in the development consent as being either retained or transplanted along with an assessment of their current overall condition.

Tree No	Genus Species	Common Name	SULE (as of March 2020)	On / Off Site	Development Consent Status	Tree Audit Findings May 2021	Comments on Condition of Trees May 2021
8	<i>Ceratopetalum gummiferum</i>	Christmas Bush	1	On site	Retained	Retained in situ	No significant change in health & condition
9	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
10	<i>Eucalyptus haemastoma</i>	Scribbly Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
11	<i>Eucalyptus piperita</i>	Sydney Peppermint	2	On site	Retained	Retained in situ	No significant change in health & condition
12	<i>Corymbia gummifera</i>	Red Bloodwood	1	On site	Retained	Retained in situ	No significant change in health & condition
13	<i>Corymbia gummifera</i>	Red Bloodwood	1	On site	Retained	Retained in situ	No significant change in health & condition
14	<i>Eucalyptus sp.</i>	-	Unstable	On site	Retained	Retained in situ	The tree was dead prior to March 2020
15	<i>Eucalyptus piperita</i>	Sydney Peppermint	1	On site	Retained	Retained in situ	No significant change in health & condition
16	<i>Eucalyptus piperita</i>	Sydney Peppermint	1	On site	Retained	Retained in situ	No significant change in health & condition
17	<i>Eucalyptus piperita</i>	Sydney Peppermint	1	On site	Retained	Retained in situ	No significant change in health & condition
18	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
19	<i>Eucalyptus piperita</i>	Sydney Peppermint	Unstable	On site	Retained	Retained in situ	No significant change in health & condition
20	<i>Banksia serrata</i>	Old Man Banksia	2	On site	Retained	Retained in situ	No significant change in health & condition
23	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
24	<i>Eucalyptus piperita</i>	Sydney Peppermint	Unstable	On site	Retained	Retained in situ	No significant change in health & condition
25	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
26	<i>Angophora costata</i>	Sydney Red Gum	Unstable	On site	Retained	Retained in situ	No significant change in health & condition
27	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
29	<i>Callicoma serratifolia</i>	Black Wattle	2	On site	Retained	Retained in situ	No significant change in health & condition
34	<i>Eucalyptus sp.</i>	-	2	On site	Retained	Retained in situ	No significant change in health & condition
35	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
36	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
37	<i>Corymbia gummifera</i>	Red Bloodwood	4	On site	Retained	Retained in situ	No significant change in health & condition
38	<i>Eucalyptus piperita</i>	Sydney Peppermint	Unstable	On site	Retained	Retained in situ	No significant change in health & condition
39	<i>Eucalyptus piperita</i>	Sydney Peppermint	Unstable	On site	Retained	Retained in situ	No significant change in health & condition
40	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
41	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition

Tree No	Genus Species	Common Name	SULE (as of March 2020)	On / Off Site	Development Consent Status	Tree Audit Findings May 2021	Comments on Condition of Trees May 2021
43	<i>Corymbia gummifera</i>	Red Bloodwood	Unstable	On adjacent allotment	Retained	Retained in situ	The tree was dead prior to March 2020
45	<i>Callitris rhomboidea</i>	Port Jackson Pine	2	On site	Retained	Retained in situ	No significant change in health & condition
48	<i>Callitris rhomboidea</i>	Port Jackson Pine	2	On site	Retained	Retained in situ	No significant change in health & condition
49	<i>Callitris rhomboidea</i>	Port Jackson Pine	2	On site	Retained	Retained in situ	No significant change in health & condition
50	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
51	<i>Banksia serrata</i>	Old Man Banksia	1	On site	Retained	Retained in situ	No significant change in health & condition
52	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
53	<i>Corymbia gummifera</i>	Red Bloodwood	1	On site	Retained	Retained in situ	No significant change in health & condition
54	<i>Banksia serrata</i>	Old Man Banksia	1	On site	Retained	Retained in situ	No significant change in health & condition
67	<i>Corymbia gummifera</i>	Red Bloodwood	4	On adjacent allotment	Retained	Retained in situ	No significant change in health & condition
69	<i>Eucalyptus sp.</i>	-	2	On site	Retained	Retained in situ	No significant change in health & condition
70	<i>Acacia decurrens</i>	Black Wattle	3	On adjacent allotment	Retained	Retained in situ	No significant change in health & condition
77	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
78	<i>Callicoma serratifolia</i>	Black Wattle	3	On site	Retained	Retained in situ	No significant change in health & condition
79	<i>Callicoma serratifolia</i>	Black Wattle	4	On site	Retained	Retained in situ	No significant change in health & condition
80	<i>Callicoma serratifolia</i>	Black Wattle	3	On site	Retained	Retained in situ	No significant change in health & condition
81	<i>Eucalyptus piperita</i>	Sydney Peppermint	3	On site	Retained	Retained in situ	No significant change in health & condition
84	<i>Schefflera actinophylla</i>	Umbrella Tree	2	On site	Retained	Retained in situ	No significant change in health & condition
85	<i>Schefflera actinophylla</i>	Umbrella Tree	2	On site	Retained	Retained in situ	No significant change in health & condition
86	<i>Schefflera actinophylla</i>	Umbrella Tree	2	On site	Retained	Retained in situ	No significant change in health & condition
88	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
89	<i>Callistemon viminalis</i>	Weeping Bottlebrush	2	On site	Retained	Retained in situ	No significant change in health & condition
90	<i>Eucalyptus sp.</i>	-	-	On site	Retained	No longer present	The tree had failed at the base prior to March 2020
91	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
92	<i>Ceratopetalum gummiferum</i>	Christmas Bush	1	On site	Retained	Retained in situ	No significant change in health & condition
93	<i>Corymbia gummifera</i>	Red Bloodwood	1	On site	Retained	Retained in situ	No significant change in health & condition
94	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	Retained in situ	No significant change in health & condition
95	<i>Eucalyptus sp.</i>	-	1	On site	Retained	Retained in situ	No significant change in health & condition
96	<i>Angophora costata</i>	Sydney Red Gum	2	On site	Retained	Retained in situ	No significant change in health & condition
105	<i>Corymbia gummifera</i>	Red Bloodwood	2	On site	Retained	Retained in situ	No significant change in health & condition
106	<i>Callistemon viminalis</i>	Weeping Bottlebrush	2	On site	Retained	Retained in situ	No significant change in health & condition
107	<i>Callistemon viminalis</i>	Weeping Bottlebrush	2	On site	Retained	Retained in situ	No significant change in health & condition
108	<i>Casuarina glauca</i>	Swamp Oak	1	On adjacent allotment	Retained	Retained in situ	No significant change in health & condition
109	<i>Casuarina glauca</i>	Swamp Oak	1	On site	Retained	Retained in situ	No significant change in health & condition
110	<i>Cupressus sp.</i>	Cypress	Unstable	On site	Retained	Retained in situ	The tree was dead prior to March 2020

Tree No	Genus Species	Common Name	SULE (as of March 2020)	On / Off Site	Development Consent Status	Tree Audit Findings May 2021	Comments on Condition of Trees May 2021
111	<i>Leptospermum laevigatum</i>	Coast Tea Tree	Unstable	On site	Retained	No longer present	The tree was dead prior to March 2020
112	<i>Acacia fimbriata</i>	Fringed Wattle	3	On site	Retained	Retained in situ	No significant change in health & condition
113	<i>Acacia fimbriata</i>	Fringed Wattle	3	On site	Retained	No longer present	The tree failed in in a storm event in November 2020
114	<i>Allocasuarina sp.</i>		3	On adjacent allotment	Retained	Retained in situ	No significant change in health & condition
117	<i>Callistemon viminalis</i>	Weeping Bottlebrush	2	On adjacent allotment	Retained	Retained in situ	No significant change in health & condition
119	<i>Callistemon viminalis</i>	Weeping Bottlebrush	2	On adjacent allotment	Retained	Retained in situ	No significant change in health & condition. A leader has been pruned to allow worker access to the site
126	<i>Angophora costata</i>	Sydney Red Gum	1	On site	Retained	No longer present	The tree failed in in a storm event in November 2020
168	<i>Banksia integrifolia</i>	Coastal Banksia	2	On site	Retained	No longer present	The tree was removed in May 2021 (refer 7.2 Note A)
170	<i>Eucalyptus capitellata</i>	Brown Stringybark	1	On site	Retained	Retained in situ	No significant change in health & condition
173	<i>Eucalyptus piperita</i>	Sydney Peppermint	1	On site	Retained	Retained in situ	No significant change in health & condition
174	<i>Corymbia gummifera</i>	Red Bloodwood	3	On site	Retained	Retained in situ	No significant change in health & condition

7.1.1 Note A

Tree No. 168 was identified as being retained in the approved plans, however the location of the tree spatially conflicted with a proposed accessible ramp. Tree No. 168 was located in a formal garden setting and was 4m in height.

It is noted in Condition 39 of DA2018/1332 requires all trees to be retained that are not indicated for removal on the approved plans, unless exempt under relevant planning instruments.

Being less than 5m in height, Tree No. 168 was not classified as a “tree” for the purposes of the Warringah Development Control Plan 2011 (WDCP, 2011) and therefore:

- exempt from provisions of the WDCP, 2011 and
- exempt under Condition 39 of DA2018/1332.

7.2 Tree Protection Measures Audit

The tree protection measures are outlined in the Tree Management Plan (Footprint Green 2020) showing the locations of tree protection fencing, critical areas such as tree protection zones and other tree protection measures. The following table provides a summary of the adequacy of tree protection measures carried out to date.

Date of Inspection	Tree Protection Fencing	Supervision of Tree Removals	Supervision of works within the tree protection zones	Other	Adequacy of Tree Protection Measures
20/02/2020	N/A	N/A	N/A	Tree Tagging carried out	Compliant
28/09/2020	N/A	Tree & vegetation removal within unmade road reserve	N/A	N/A	Compliant
29/09/2020	N/A	Tree removal on the site	N/A	N/A	Compliant
16/10/2020	Fencing installed with signage	N/A	None	N/A	Temporarily non-compliant (Refer Note B below)
12/11/2020	Fencing installed with signage	N/A	None	N/A	Compliant (Refer Note C below)
24 /05/2021	Fencing installed with signage	Tree removal within the bushfire APZ	None	N/A	Compliant

7.2.1 Note B

As of 16/10/2020 the tree protection fencing adjacent Tree No.126 was temporarily removed to allow for demolition of the sandstone wall. Although a modification application has been submitted to remove Tree No. 126 no consent to remove Tree No. 126 has been issued. Until tree removal consent is issued, the Tree Protection Fencing will need to be reinstalled after completion of the demolition of the sandstone wall and any rubble within the tree protection zone must be removed.

7.2.2 Note C

Tree No. 126 failed at the base during a storm event during 31st October & 1st November 2020. Tree protection for Tree No. 126 is therefore no longer required.

8 Compliance / Non-Compliance with Development Consent Conditions & Subsequent Plans

The table below outlines the areas where the site is compliant and non-compliant with the development consent arboricultural conditions and/or subsequent approved plans prepared under the consent conditions.

Consent Condition No.	Condition Requirements	Compliant / Non-Compliance as of May 2021
21	Tree Protection Plan (c) Tree protection measures identified on the plan are to be in place prior to commencement of works.	Compliant
39	Tree Protection (a) Existing trees which must be retained i) All trees not indicated for removal on the approved plans, unless exempt under relevant planning instrument; ii) Trees located on adjoining land; iii) all road reserve trees and vegetation.	Compliant
39	(b) Tree protection measures: i) No tree roots greater than 30mm diameter are to be cut from protected trees unless authorised ii) All structures are to bridge tree roots greater than 30mm diameter unless directed otherwise iii) All tree protection is to be in accordance with the Arboricultural Impact Report dated 23 July 2018 iv) The tree protection measures specified in this clause must: (i) be in place before work commences on the site, and (ii) be maintained in good condition during the construction period, and (iii) remain in place for the duration of the construction works. v) No excavated material, building material storage, site facilities, or landscape materials are to vi) All tree pruning within the subject site is to be in accordance with the relevant Development Consent vii) any tree roots exposed during excavation with a diameter greater than 30mm within the Tree	Compliant
40	Project Arborist 1. A Project Arborist with minimum qualification AQF Level 5 is to be appointed prior to commencement of works. 2. The Project Arborist is to oversee all tree protection measures, removals and works adjacent to protected trees as outlined in the approved Tree Protection Plan and Arboricultural Impact Assessment dated 31 July 2018 prepared by Footprint Green and the Arboricultural Impact Report dated 23 July 2018 prepared by Landscape Matrix and AS4970-2009 Protection of trees on development sites. 3. The Project Arborist is to ensure compliance as relevant with any other environmental requirements conditioned under this consent.	Compliant
70	Condition of retained vegetation Prior to the issue of an Occupation Certificate, a report prepared by the Project Arborist shall be submitted to the Certifying Authority assessing the health and impact of trees and vegetation required to be retained as a result of the proposed development, including the following information: a) Compliance to Arborist recommendations for tree protection and excavation works. b) Extent of damage sustained by vegetation as a result of the construction works. c) Any subsequent remedial works required to ensure the long-term retention of the vegetation.	<i>Not currently applicable</i>

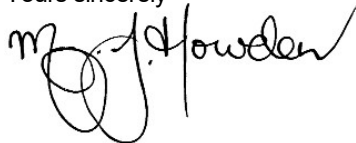
9 Arboricultural Recommendations Resulting from the May 2021 Site Inspection & Audit

Based upon the latest site inspections and audits carried out, it is recommended that:

- The project manager notify Footprint Green if any works are proposed to be undertaken within the fenced off areas.
- The project manager provide Footprint Green with copies of any approved variations to conditions of consent relating to trees or works that affect tree retention.
- The project manager provide a copy of this report to the certifying authority.
- The certifying authority note that Tree No's 14, 43, 90, 110 & 111 were identified as being retained in the Arboricultural Impact Assessment (Footprint Green 31/07/2018) and as of March 2020 these trees had subsequently died prior to works commencing on site.
- The certifying authority note that Tree No. 126 was identified as being retained in the Arboricultural Impact Assessment (Footprint Green 31/07/2018) and this tree failed at the base during a storm event in November 2020 and no longer exists.
- The certifying authority note that Tree No. 113 was identified as being retained in the Arboricultural Impact Assessment (Footprint Green 31/07/2018) and this tree suffered substantial damage during a storm event in November 2020 and is dead.
- The certifying authority note that Tree No. 168 was identified as being retained in the Arboricultural Impact Assessment (Footprint Green 31/07/2018) however we are advised that the tree spatially conflicts with the proposed assessable walkway. Being less than 5m in height, the tree was exempt from provisions of the WDCP, 2011 and therefore exempt under Condition 39 of DA2018/1332.

Should you or others have any queries regarding the contents of the report, please feel free to contact us on 9918 8877 or 0407 888 771.

Yours sincerely



Melanie Howden
Director & Principal
Arboriculturalist / Horticulturalist

Appendix A - Extract from Tree Protection Plan Showing Tree Locations

