Tree Survey Form

A Tree Survey is undertaken to inform revegetation and the provision of replacement trees (Condition of Approval E13). The Tree Survey must identify any trees to be removed, except for trees that are offset under Condition E4. The Tree Survey must be submitted to Sydney Metro for information with the Place, Urban Design and Corridor Landscape Plan required under Condition E79.

The definition of tree is a long lived woody perennial plant greater than (or usually greater than) three (3) metres in height with one or relatively few main stems or trunks (AS4373-2007 Pruning of amenity trees).

Work Pack Activity / Task	**ORCHARD HILLS – SITE ESTABLISHMENT**	**Work Pack Reference:**	**SMWSASBT-CPG-SWD-SW000-CX-WPK-000008**
Site/ Location:	Orchard Hills	**Inspection Date:**	27/07/2022 – 28/07/2022

Details of trees to be removed and the reasons for the removal:

A variety of tree species to be removed to enable SBT works at the Orchard Hills site.

Assessment to be undertaken visually from the ground only and based upon the Visual Tree Assessment (VTA) method

	Tree Species and Common		Diameter at	No. of	Height	SULE	Condition	
E.g.	*Metrosideros excelsa* New Zealand Christmas Bush	*S/M*	*130*	*1*	*4*	*3b*	*4*	*Previously lopped. Foliage consists mostly of epicormic re-growth.*
1	Dead Tree	OM	100	1	3.5	4A	2	Dead
2	Dead Tree	OM	70	2	3.5	4A	2	Dead
3	Dead Tree	OM	80	2	3.5	4A	1	Dead
4	Dead Tree	OM	150	1	3.5	4A	2	Dead
5	Dead Tree	OM	90	1	2.5	4A	2	Dead

Count	Tree Species and Common Name	Age	Diameter at 1m (mm)	No. of trunks	Height (m)	SULE [a]	Condition [b]	Comments
6	Dead Tree	OM	130	3	3	4A	4	Dead
7	Dead Tree	M	70	2	2.5	4A	1	
8	*E.Fibrosa*	OM	70	1	2	4A	2	Significant Decline
9	*E.Fibrosa*	SM	240	1	7	3A	4	Leaf Chewing bug
10	*E.Fibrosa*	SM	50	2	2.5	2A	4	
11	*Acacia Sp.*	SM	70	1	3	2A	6	
12	*E.Fibrosa*	SM	50	1	3	2A	4	
13	*Acacia Sp.*	SM	70	1	5	2A	6	
14	*Acacia Sp.*	SM	90	1	5	2A	6	
15	*E.Fibrosa*	SM	50	1	2	5B	4	
16	*E.Fibrosa*	SM	50	2	2.5	5B	4	
17	*E.Fibrosa*	SM	170	1	5	5B	4	
18	*E.Fibrosa*	SM	100	1	5	5B	4	
19	*E.Fibrosa*	SM	220	1	7	5B	4	
20	*E.Fibrosa*	SM	140	1	6	5B	4	Slender
21	*E.Fibrosa*	SM	190	1		5B	4	Included leaches
22	*E.Fibrosa*	SM	100	1	3	5B	4	Sig decline
23	*E.Fibrosa*	SM	80	1	2	2B	4	Sig decline
24	*E.Fibrosa*	SM	200	4	7	2B	4	Multi tucked

Count	Tree Species and Common Name	Age	Diameter at 1m (mm)	No. of trunks	Height (m)	SULE [a]	Condition [b]	Comments
25	*E.Fibrosa*	SM	170	1	5	2B	4	
26	*Olea Europaea*	M	40	3	2.5	3C	5	
27	*E.Fibrosa*	SM	130	1	5	5B	4	
28	*E.Fibrosa*	SM	130	1	5	5B	4	
29	*E.Camaldulensis*	SM	150	4	7	2B	4	
30	*Allocasuarina littoralis*	SM	160	2	6	2B	4	
31	*Acacia Sp.*	Y	45	1	2	2B	6	
32	*E.Camaldulensis*	SM	270	1	11	2C	3	
33	*E.Camaldulensis*	SM	100	2	3	3C	3	Shrub like form
34	*Eucal. Sp.*	SM	70	2	6	4A	2	Sig decline – almost dead
35	*Eucal. Sp.*	Y	55	1	2.5	5B	4	
36	*Eucal. Sp.*	SM	80	2	6	5B	4	
37	*Eucal. Sp.*	SM	120	1	7	5B	4	
38	*Eucal. Sp.*	SM	80	1	7	2A	4	Slender
39	*Casuarina conias*	M	200	4	5	2C	4	
40	*Eucal. Sp.*	SM	180	1	9	2A	6	
41	*Eucal. Sp.*	SM	80	1	5	2A	6	
42	*E.Camaldulensis*	SM	200	1	10	1A	6	
43	*E.Camaldulensis*	M	210	1	13	1A	6	

Count	Tree Species and Common Name	Age	Diameter at 1m (mm)	No. of trunks	Height (m)	SULE [a]	Condition [b]	Comments
44	*E.Camaldulensis*	M	290	1	14	1A	6	
45	*Eucal. Sp.*	M	250	1	13	1A	6	
46	*ACACIA DECURRENS*	SM	150	1	10	5B	5	
47	*E.Fibrosa*	SM	50	1	3	5B	5	
48	*E.Fibrosa*	SM	50	1	3	5B	5	
49	*E.Fibrosa*	SM	110	1	5	5B	5	
50	*E.Fibrosa*	SM	170	1	6	5B	5	
51	*Malus Sp*	M	80	8	2	4A	2	
52	*Malus Sp*	M	70	2	1.5	4A	2	
53	*Malus Sp*	M	80	2	4	4A	2	
54	*eucalyptus camaldulensis*	M	210	5	7	2C	5	
55	*E.Fibrosa*	M	210	2	7	1B	5	
56	*E.Fibrosa*	SM	240	1	8	5B	5	
57	*E.Fibrosa*	Y	40	1	2	5B	5	
58	*E.Fibrosa*	SM	90	1	3	5A	6	
59	*E.camaldulensis*	SM	180	2	7	5B	5	
60	*E.Fibrosa*	SM	190	1	6	5B	4	
61	*E.Fibrosa*	SM	130150	1	5	5B	4	
62	*E.Fibrosa*	SM	160	1	6	5B	4	

Count	Tree Species and Common Name	Age	Diameter at 1m (mm)	No. of trunks	Height (m)	SULE [a]	Condition [b]	Comments
63	*E.Fibrosa*	SM	220	1	6	5B	4	
64	*E.Fibrosa*	M	150	1	7	2B	4	
65	*E.Fibrosa*	SM	130	2	8	2B	4	
66	*E.Fibrosa*	SM	130	2	5	5B	4	
67	*E.Fibrosa*	SM	120	1	4	5A	4	
68	*E.Fibrosa*	SM		2	4	5B	4	
69	*E. Fibrosa Woodlands x 37*	SM	50-200	1	3-8	5A-2A	3-5	
106	*Olea Europaea*	M	40	3	3	5C	5	Damaged and decay
107	*Olea Europaea*	SM	40	2	2	5C	5	
108	*Acacia Decurrans x 21*	M	50-210	1	4-8	5A-2B	1-6	
129	*E-Fibrosa x 5*	SM-M	130-290	1	5-8	5A-1B	5-6	
134	*Eucalyptus Sp.*	SM	190	1	5	5B	5	
136	*Dead Trees x 2*	Dead	80	4	2.5	4A	1	
138	*Lantara and Olive Grouping x 2*	M	-	Hedge	5	5C	4	
156	*Acacia decurrens x 18*	M	40	1	2-8	5B-1B	4-6	
174	*Red Gum x 7*	SMx4,Mx3	200-900	6x1, 1x2	9-15	1C	4-6	
181	*Dead Trees x 70*	Dead	-	1-2	1-	4A	1	
251	*Eucalyptus Sp.*	M	680	1	20	1C	6	
252	*Eucalyptus Sp.*	M	730	1	20	4A	3	

Count	Tree Species and Common Name	Age	Diameter at 1m (mm)	No. of trunks	Height (m)	SULE [a]	Condition [b]	Comments
253	*Failed Tree*	-	-	1	11	4A	1	Failed from root plate
254	*Allocasuarina Sp.*	M	410	2	15	1B	6	
255	*Eucalyptus microcorys*	SM-M	130-430	1	5-17	2B	5	
256	*Eucalyptus Sp.*	M	820	1	15	1B	5	
257	*Eucalyptus microcorys*	M	220	1	5	2C	4	
258	*Acacia x 16*	M	170-290	2x3,1x3	15	2C-1B	4-6	
274	*Eucalyptus microcorys x 15*	M	150-50	13x1, 2x2	15	3A-1B	2-6	
289	*Eucalyptus punctata*	M		1	15	1B	5	
290	*Acacia Meanoxylon*	M	160	1	7	2C	6	
291	*Unindated Shrub group x 40*	M	40	1-3	2	2A	3-6	
331	*E.Fibrosa*	SM	70	1	7	1B	6	
332	*Olea Europaea*	M	60	5	3.5	5C	6	
333	*Eucalyptus camaldulensis*	SM	290	1	8	1B	5	
334	*Olea Europaea x 2*	M	110	4	3.5	5C	6	
336	*Acacia Meanoxylon x 23*	SM-M	70	1	3-8	5A-1B	6	
359	*Citrus Lemon*	M	50	2	3	5C	5	
360	*Mangifera x 2*	M	90	2	5	5C	4	
362	*Ligustrum*		-	-	3	5C	3	
363	*Radiata Pine x 5*	M	400 - 1200	1-3	5-17	1B – 4A	3-6	Lot 98

Count	Tree Species and Common Name	Age	Diameter at 1m (mm)	No. of trunks	Height (m)	SULE [a]	Condition [b]	Comments
368	*Citrus Sp.*	M	50	2	2	5C	5	
369	*Dead Tree*		150	1	3	4A	1	
370	*Malus Sp.*	OM	20	3	4	4C	2	
371	*Deciduous*	OM	250	1	4	4A	3	
372	*Araucaria Heterophylla x 4*	M	350-550	1	18	1C	6	
376	*Citrus Sp.acer negundo*	M	50-200	1	3	5C – 3A	3-6	
377	*Lagerstroemia indica*	M	-	N/a	6	2B	5	
378	*Callistemon Citrinus*	M	100	3	2	2A	5	
379	*livistona Australia x 2*	M	250-400	1	4-8	1B	6	
381	*acer negundo*	M	550	2	7	3B	3	
382	*Brachychiton acerifolius*	OM	250	1	5	4A	3	
383	*Lagerstroemia indica x 2*	M	100-350	1	4	2A	6	
385	*Callistemon viminalis*	M	300	1	5	2A	5	
386	*Lagerstroemia indica*	M	150	1	5	3B	5	
387	*Schinus Sp.*	M	450	1	7	1B	4	
388	*camellia sasanqua x2*	SM	50-100	1	2	5C	3-4	
390	*Lagerstroemia indica*	SM	100	1	4	3B	5	
391	*Callistemon viminalis*	M	250	1	5	2B	5	
392	*Pittosporum undulatum*	M	200	1	4	4A	3	

Count	Tree Species and Common Name	Age	Diameter at 1m (mm)	No. of trunks	Height (m)	SULE [a]	Condition [b]	Comments
393	*Ligustrum Sp. X 10*	M	50-150	1	4-5	5C	3-5	
403	*Eucalyptus fibrosa x 3*	SM- M	150-280	1x1, 1x2	7-17	2B-1B	5-6	
406	*Acacia decurrens x 3*	Y	50	1	3	5A	6	
409	*Eucalyptus sp*	M	450	1	14	3A	3	
410	*Washington Robusta*	M	300	1	11	1A	6	
411	*Phoenix canariensis x 2*	M	800	1	5	1A	6	
413	*Callistemon viminalis*	M	150-180	5	7	2A	6	
414	*Citrus x limon*	M	60	1	2	5C	4	
415	*Dead Tree*		650	1	6	4A	1	Significant structural decay / HRHA
416	*Jacaranda*	M	350	2	5	3B	4	
417	*eucalyptus punctata*	M	400-900	4X1, 1X2	10-16	1A-1B	5-6	
418	*Eucalyptus crebra*	OM	600	1	12	4A	2	
419	*Photinia Sp*	M	Hedge	Hedge	2mh x 12ml	5C	6	
420	*Lagerstroemia indica x 9*	SM	150-200	1-2	4	6		
429	*Photinia Sp*	M	Hedge	Hedge	100m	5C	6	
430	*Quercus robur*	M	250	1	6	2A	4	deciduous botryosphaeria
431	*Callistemon viminalis*	M	250-200	2	8	2A	4	
432	*Thaumatophyllum bipinnatifidum*	M	N/A	N/A	10m-4ml	3A	6	

Count	Tree Species and Common Name	Age	Diameter at 1m (mm)	No. of trunks	Height (m)	SULE [a]	Condition [b]	Comments
433	*Photinia Sp*	M	Hedge	Hedge	2m – 40ml	5C	6	
434	*Lagerstroemia indica x 2*	M	50	1	2	5A	3	
436	*Mangifera indica*	M	50-100	4	3	5A	4	
437	*Citrus x limon*	M	250	1	3	5C	4	
438	*Melaleuca styphelioides x 8*	M	300-700	1-4	6-9	2A-2B	4-6	Running E-W of road
446	*Eucalyptus sp*	M	550	1	12	1B	4	Structural defect
447	*Melaleuca styphelioides x 5*	M	250-600	1-2	12-14	2A-2B	4-6	Running N-S
452	*Melaleuca bracteata*	OM	80	2	3	5A	3	
453	*Phoenix canariensis*	SM	400	1	3	5A	6	Within raised garden bed
454	*Casuarina cunninghamiana x8*	M	300-600	1	12-16	2A-1B	5-6	
462	*Eucalyptus caramandi*	M	600	1	14	2B	3	Structural defect at base of toe
463	*Callistemon viminalis*	M	100-150	3	5	2B	4	Suppressed
464	*Mixture of fruit bearing and ornamental trees x15*	SM-OM	20-200	1-5	2-5	5A-3A	2-6	
479	*Callistemon viminalis*		200	1	5	3A	4	
480	*Syzygium Sp x 2*		150	2	4	5A	6	
482	*Photinia Sp*		Hedge	Hedge	1-2	5A	3-5	50m long
483	*Thuja sp*		150	3	4	3A	3	
484	*Callistemon viminalis*		250	2	8	2A	5	

Count	Tree Species and Common Name	Age	Diameter at 1m (mm)	No. of trunks	Height (m)	SULE [a]	Condition [b]	Comments
485	*Mangifera indica*		50-150			4B	2	Failed at Base
486	*Photinia Sp x 5*		Multiple	Multiple	4	5A	6	
491	*Melaleuca bracteata*		600	2	10	1B	6	
492	*Washingtonia robusta x2*		320	1	10	1B	6	
494	*Olea Europaea Africana x3*		100	1	5	5C	4	
497	*Coco capitata*	SM	400	1	3	5A	6	
498	*Photinia Sp. X2*	M	Multiple		6-8	5A	3	
500	*Syzygium Sp*	SM	300	2	9	1B	6	
501	*Mixed Ornamental Shrubs x 10*	SM-M	50-150	1-4	2-6	5A-3A	3-6	
511	*Acer Negundo*	M	150	1	5	2A	6	
512	*Eucalyptus crebra*	M	700	1	20	1C	6	
513	*Eucalyptus crebra*	M	800	1	20	1C	4	
514	*Melaleuca styphelioides*	M	800	1	16	1A	6	
515	*Eucalyptus crebra*	M	300	3	14	1C	3	
516	*Eucalyptus crebra*	M	300	1	13	1C	4	
517	*Casuarina Sp*	M	150	1	4	5A	1-3	
518	*Syagrus romanzoffiana x7*	M	150-300	1	4-6	1A	5-6	Exempt
525	*Melaleuca styphelioides*	M	250-350	5	12	1B	6	
526	*Syzygium Sp*	SM	30-80	3	3	5A	6	

Count	Tree Species and Common Name	Age	Diameter at 1m (mm)	No. of trunks	Height (m)	SULE [a]	Condition [b]	Comments
527	*Malus sp.*	SM	20-50	N/A	3	5A	6	
528	*Morus alba*	OM	250	1	6	3B	3	
529	*Lagerstroemia indica*	SM	100	1	5	5B	5	
530	*Elaeocarpus sp*	M	100	1	6	2A	6	
531	*Citrus x limon*	M	30	N/A	3	5A	5	
532	*Morus alba x2*	M	200	2	5	4F/3A	3	
534	*Acacia Mearnsil*	M	60	1	4	5B	6	

Conducted by:	Tariq Coult	**Qualification[1]:**	AQF Level 5 Arboriculture
Has a clear site plan/map showing the location of the tree(s) you are applying to remove been attached?			Yes / *No*
Comments: Trees inspected as directed by Senior Project Engineer at Orchard Hills			
Of the **534** trees surveyed; **109** were either dead or in decline / dying			

[1] The form must be prepared by an arborist who holds training to Australian Qualifications Framework of Level 3 in Arboriculture, or above, or equivalent recognised and relevant experience that enables the person to perform the tasks required by AS 4373—2007 e.g. members of either the Institute of Australian Consulting Arborists or Arboriculture Australia

[ab] Notes

SULE - Safe Useful Life Expectancy

1. Long SULE
    a. Structurally sound and can accommodated future growth
    b. Long term potential with minor remedial treatment
    c. Trees of special significance which warrant extra care
2. Medium SULE
    a. Will live between 15-40 years
    b. Will live for more than 40 years but would be removed for safety or nuisance reasons
    c. May live for more than 40 years but will interfere with more suitable specimens and need removal eventually
    d. More suitable for retention in the medium term with some remedial care
3. Short SULE
    a. Trees that may only live between 5-15 more years
    b. May live for more than 15 years but would need removal for safety or other reasons
    c. Will live for more than 15 years but will interfere with more suitable specimens or provide space for replacement plantings
    d. Require substantial remedial care but are only suitable for short term retention
4. Removals
    a. Dead, dying or seriously diseased
    b. Dangerous trees through instability or loss of adjacent trees
    c. Structural defects such as cavities
    d. Damaged that are clearly not safe to retain
    e. May or are causing damage to structures
    f. That will become dangerous
5. Moved or Replaced Trees, which can be reliably moved or replaced
    a. Small trees less than 5 meters
    b. Young trees between 5-15 years
    c. Trees that have been regularly pruned to control growth

CONDITION

This is based on observations of their health and structure.

1. A dead tree.
2. A tree in severe decline. Major structural damage that cannot be repaired, dieback of trunk or scaffold branches and the majority of foliage consist of epicormic growth.
3. A tree in decline. Significant structural damage that cannot be repaired, dieback of medium to larger branches and epicormic growth.
4. A tree moderate vigor, dieback of smaller branches and twigs, thinning of crown, poor leaf colour and moderate structural defects that could be mitigated with regular care.
5. A tree in slight decline with only a small amount of twig dieback and minor structural damage that could be easily rectified.
6. A healthy vigorous tree that shows reasonably free signs of pest and diseases and good structural form.