

*Koala Scat Survey – Campbelltown LGA –
East of Appin Road*



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Summary

Koala scat surveys were undertaken on partially cleared blocks of land east of Appin Road in the Campbelltown LGA. Koala scats were found under 25 of 306 trees investigated across the landscape with a high incidence of occurrence under isolated paddock trees greater than 100m from the closest forest remnant (42.9% of trees surveyed, n=7 trees). All areas surveyed were suitable koala habitat. Tree species listed under SEPP44 were common and widespread across the survey area. These species accounted for 63% of trees surveyed comprising the Grey Gum *Eucalyptus punctata* (45%) and the Forest Red Gum *E. tereticornis* (18%). While tree use by koalas in the study area was found to be significant, it was likely still underestimated. There are several reasons for this, the most important being that the study area is currently extremely dry and has suffered many days over 36 degrees in the last two and a half months, with some days up to 45 degrees. Koalas are very susceptible to heat stress and many are likely to have moved into deeper gullies and more protected moister vegetation types during these conditions. The results of this survey should therefore be considered a low baseline with more Koalas likely occupying the area during normal conditions.

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1 Introduction

This report summarises the results of Koala scat searches undertaken on partially cleared land east of Appin Road from Denfield Green south to the Blackburn Road easement area in the Campbelltown LGA. The principal objective of the survey was to search for Koala scats under trees in open paddocks or highly disturbed situations away from the forest edge backing the Georges River.

The surveys were undertaken on 19 and 20 February 2018.

2 Methods

The presence of Koalas in an area can readily be told by identifying their distinctive scats deposited under feeding and resting trees. The Koala scats are readily distinguished from other sympatric mammal species (e.g. see Triggs 2011):

- a) hard and firmly packed;
- b) long oval or cylindrical in shape with a slightly ridged surfaced;
- c) when broken open the fairly coarse fragments of leaf cuticles are typically greenish in colouration in marked contrast to the mostly brown or red-brown outer scat surface.
- d) Fresh scats typically have a distinct eucalyptus odour.



Koala scats found in the study area.

As a result of their distinctive appearance and persistence in the environment scat searches are an ideal approach to providing a level of understanding of Koala usage in a particular parcel of land. The Spot Assessment Technique (SAT) was developed to assist with the identification of habitat usage by the species (Phillips and Callaghan 2011). However, this technique is time consuming and requires a continuous tree cover where a minimum of 30 trees must be sampled in a 40 X 40m area. Such constraints could not be applied in the current survey due to the limited field survey time and logistical constraints as well as the primary objective of sampling isolated paddock trees and trees in disturbed lands fringing remnant forest areas.

Instead for the current project a modified SAT was adopted where:

- a) Native live trees only were sampled.
- b) All isolated paddock trees and a selection of trees in disturbed situations fringing the forest to the east of the land blocks bordering the Georges River corridor were sampled. Trees greater than 40cm diameter at breast height (DBH) were

sampled. The following landscape categories for each tree surveyed were: *i.* Isolated paddock trees >100m from forest edge; *ii.* Isolated paddock trees <100m from forest edge; *iii.* Remnant trees in cleared area <50m from Appin Road tree corridor; *iv.* Modified canopy with many young trees and disturbed cleared understorey and ground layers including the presence of buildings and other infrastructure <50m from forest edge; *v.* Modified canopy with many young trees and disturbed cleared understorey and ground layers including the presence of buildings and other infrastructure 50 to 100m from forest edge; *vi.* Modified canopy with many young trees and disturbed cleared understorey and ground layers including the presence of buildings and other infrastructure >100m from forest edge; and *vii.* Outer most tree of forest edge bordering extensive cleared land.

- c) Following the SAT cursory protocol: scat searches below each tree were undertaken by walking slowly around the base and outward up to 100cm from the trunk (depending on the extent of the canopy; i.e. small saplings with a small canopy were walked outwards to the extent of the canopy). No disturbance of the ground layer was undertaken as part of this search. Similar to the SAT approach approximately 2 minutes was spent searching under each tree. Shorter search times were undertaken when searching under saplings (DBH <100cm) and a longer period under trees where dense leaf litter or ground layer shrubbery was present or where accumulations of macropod and other scats were encountered.
- d) For each search tree the following information was recorded: date, grid reference using a GPS with all points having an accuracy of ± 3 m (using GDA map datum), tree species, position within the landscape (see above) and DBH using a tape measure.
- e) Where Koala scats were located beneath a tree the number of scats were classified using the following categories: <10 scats, 10-20 scats, 20-30 scats and >30 scats.

3 Results

Twenty-five trees had Koala scats underneath of the total of 306 trees surveyed (8.2% of total trees) within the area (Appendix 1). Trees species with scats underneath were predominantly the Grey Gum *Eucalyptus punctata* (64%) followed by the Forest Red Gum *E. tereticornis* (24%) and single trees of three species (Grey Box *E. moluccana*, Blackbutt *E. pilularis* and Cabbage Gum *E. amplifolia*). The incidence of the percentage of trees with Koala scats underneath compared to total trees of that species investigated ranged from Grey Box (17% of total surveyed), Grey Gum (12%), Forest Red Gum (11%) and lastly the Blackbutt (4%). Interestingly the only Cabbage Gum surveyed had Koala scats present underneath it. No scats were found under four tree species: Rough-barked Apple, Stringybark sp, Narrow-leaved Ironbark and the Broad-leaved Red Ironbark (combined accounting for 27% tree species surveyed).



Isolated paddock trees which had Koala scats located underneath.

Unfortunately there were only a small number of isolated paddock trees present in the area surveyed (i.e. only 7 trees >100m from nearest forest edge and 11 trees <100m from nearest forest edge; combined representing only 6% of total trees surveyed). However, interestingly a high incidence of Koala scats were under the isolated paddock trees greater than 100m from the closest forest remnant (42.9% of trees surveyed, n=7

trees). A relatively high incidence of scats were found under small trees in cleared land within 50m of the Appin Road vegetation corridor (9.1% of trees surveyed, n=11 trees).

Much of the area was typified by a varying band of greatly disturbed vegetation fringing the forest edge backing on to the Georges River. Within this disturbed area the trees were typically small and regenerating, the canopy had been varyingly thinned, the shrub layer was typically absent, the ground cover had been cleared, was grazed in many places by cattle and there were large amounts of rubbish, weeds (including introduced trees in places), remnants of old buildings and other structures present. This disturbed band of vegetation accounted for 76.0% trees (n=19 trees) with Koala scats found underneath. No scats were found under the 18 trees surveyed on the forest edge backing on to the Georges River.

4 Discussion

4.1 Koala Usage Underestimated

A number of factors led to a likely underestimate of Koala presence in the area surveyed:

- a) At the time of the survey there had been well below average rainfall, with many shrub species showing evidence of wilting, the soil cracked in places and most stock dams were completely dry. Rainfall data from the nearby Mt Annan Botanic Gardens in Campbelltown indicated the dryness leading up to the survey period (Bureau of Meteorology data; Table 1). Further there had been 20 days between the start of December 2017 and the survey period with temperatures at or over 36°C during the past two and a half months. Such an incidence of high temperatures may have contributed to a lowering in the palatability of the trees on ridges and upper slopes, such as present in the current survey area. Additionally the Koala is known to be susceptible to heat stress. Therefore, given the unusually dry and hot conditions it is likely that Koalas at the time of the survey were confined to cooler habitats and areas with more palatable

vegetation, such as in deep gullies and better-protected situations e.g. along the Georges River corridor. Since the duration of scat persistence is unknown in this environment and activity is likely to have been reduced on the ridges and upper slopes for at least a six-month period it is likely that the results are an under-representation of Koala usage of the area.

	Aug 2017	Sept 2017	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Average
Average	38.0	35.8	45.3	69.3	60.8	77.2	326.4
2017/18	21.9	0.0	45.3	26.5	57.1	33.6	184.4

Table 1: Rainfall data from Mt Annan Botanic Gardens, Campbelltown for the six month period leading up to the Koala scat survey (data from Bureau of Meteorology:

http://www.bom.gov.au/jsp/ncc/cdio/weatherData/av?p_nccObsCode=139&p_display_type=dataFile&p_startYear=&p_c=&p_stn_num=068254).

Additionally, the number of scats encountered may have been under-detected as a result of:

- b) Many trees had an extensive crown (i.e. the majority of trees with DBH >200cm; n=79 trees surveyed) which extended beyond the 100cm search area from the trunk base. Therefore scats deposited from Koalas feeding or resting in the outer canopy of such trees are likely not to have been located.
- c) Since the rapid SAT involved a cursory inspection under each tree with no disturbance of the ground vegetation or litter it is likely that some scats may have not been detected, especially where a dense shrub layer was present.
- d) In some areas large numbers of macropod scats were present, with macropod activity (e.g. scrapes made for resting purposes) also resulting in much ground disturbance. In such circumstances where Koala scats were intermingled amongst large numbers of other scats they may have been overlooked.

4.2 Koalas and Paddock Trees

The results indicated that despite the dry conditions Koalas were using isolated paddock trees, including 42.9% of trees greater than 100m from the closest forest edge or adjacent to the Appin Road vegetation corridor. This is in line with tracking studies both locally and elsewhere that show koalas will travel large distances across cleared land to access good feed trees in paddocks. Given clearing often occurs on the best soils, and koalas select for trees on richer soils, they may even prefer paddock trees over those in the nearby forest. It would be expected at different times of the year or in wetter and cooler conditions that such usage may be even higher than what was recorded in the current survey.

4.2 Koalas and Disturbed Vegetation

Results of this survey show that koalas are also using regenerating and remnant trees in the study area. They were found using areas with incomplete canopy, lack of shrub layer, evidence of old buildings and other infrastructure.

4.2 SEPP44 Trees

Feed trees listed in the State Environmental Planning Policy No. 44 – Koala Habitat Protection (also known as SEPP44) were common and widespread across the survey area (accounting for 63% of trees surveyed). These trees species were in order of abundance the Grey Gum (45% of trees surveyed) and the Forest Red Gum (18% of trees surveyed).

6 Acknowledgements

Special thanks to Liza Schaeper for organising the logistics and running of the survey, Scott Courtney for assisting with the survey logistics and to Troy Lessels for providing access advice.

7 References

Phillips, S. and Callaghan, J. (2011). The *Spot Assessment Technique*: a tool for determining localised levels of habitat use by Koalas *Phascolarctos cinereus*. *Australian Zoologist* **35**, 774-780.

Triggs, B. (2011). *Tracks, scats and other traces: a field guide to Australian mammals*. Revised edition. Oxford University Press, South Melbourne.

Appendix One: Koala Scat Search Trees Surveyed.

#	Date	Position	Eastings	Northings	Tree Species	DBH (cm)	Scats
1	19/02/2018	Forest edge	297035	6222282	Stringybark sp	183	-
2	19/02/2018	Forest edge	297051	6222233	Stringybark sp	157	-
3	19/02/2018	Forest edge	297055	6222234	Stringybark sp	122	-
4	19/02/2018	Forest edge	297046	6222212	Narrow-leaved Ironbark	152	-
5	19/02/2018	Forest edge	297017	6222159	Stringybark sp	66	-
6	19/02/2018	Forest edge	297006	6222140	Grey Gum	>200	-
7	19/02/2018	Forest edge	296996	6222137	Stringybark sp	134	-
8	19/02/2018	Forest edge	296989	6222132	Grey Gum	111	-
9	19/02/2018	Forest edge	296993	6222118	Grey Gum	191	-
10	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296977	6222134	Grey Gum	156	-
11	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296971	6222130	Grey Gum	129	-
12	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296962	6222136	Grey Gum	185	-
13	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296956	6222141	Grey Gum	91	-
14	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296953	6222145	Stringybark sp	112	-
15	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296964	6222162	Stringybark sp	>200	-
16	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296960	6222162	Stringybark sp	88	-
17	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296948	6222164	Grey Gum	>200	-
18	19/02/2018	Forest edge	296948	6222121	Narrow-leaved Ironbark	63	-
19	19/02/2018	Forest edge	296948	6222120	Narrow-leaved Ironbark	88	-
20	19/02/2018	Forest edge	296948	6222118	Narrow-leaved Ironbark	50	-
21	19/02/2018	Forest edge	296940	6222117	Narrow-leaved Ironbark	66	-
22	19/02/2018	Forest edge	296941	6222118	Narrow-leaved Ironbark	50	-
23	19/02/2018	Forest edge	296941	6222117	Narrow-leaved Ironbark	68	-
24	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296934	6222124	Rough-barked Apple	91	-
25	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296926	6222130	Rough-barked Apple	78	-
26	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296923	6222127	Grey Gum	114	-
27	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296912	6222139	Rough-barked Apple	>200	-
28	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296896	6222116	Rough-barked Apple	>200	-
29	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296886	6222127	Rough-barked Apple	>200	-
30	19/02/2018	Paddock Tree; >100m from forest edge	296843	6222181	Grey Gum	>200	-
31	19/02/2018	Paddock Tree; >100m from forest edge	296844	6222223	Grey Gum	186	<10

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#	Date	Position	Eastings	Northings	Tree Species	DBH (cm)	Scats
32	19/02/2018	Paddock Tree; >100m from forest edge	296862	6222248	Grey Gum	142	-
33	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296874	6222097	Broad-leaved Red Ironbark	>200	-
34	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296874	6222075	Rough-barked Apple	129	-
35	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296872	6222069	Forest Red Gum	192	10-20
36	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296859	6222064	Rough-barked Apple	53	-
37	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296869	6222042	Forest Red Gum	155	-
38	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296871	6222037	Forest Red Gum	94	-
39	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296867	6222034	Forest Red Gum	55	-
40	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296870	6222030	Forest Red Gum	132	-
41	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296876	6222024	Forest Red Gum	114	-
42	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296873	6222020	Rough-barked Apple	>200	-
43	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296880	6222040	Forest Red Gum	>200	<10
44	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296883	6222061	Rough-barked Apple	167	-
45	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296879	6222060	Broad-leaved Red Ironbark	>200	-
46	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296891	6222070	Grey Gum	157	-
47	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296900	6222065	Grey Gum	50	-
48	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296900	6222045	Forest Red Gum	139	-
49	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296904	6222040	Grey Gum	>200	-
50	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296900	6222024	Forest Red Gum	71	<10
51	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296897	6222026	Forest Red Gum	65	-
52	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296898	6222027	Forest Red Gum	68	-
53	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296894	6222027	Grey Gum	>200	<10
54	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296898	6222021	Forest Red Gum	99	-
55	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296891	6222000	Narrow-leaved Ironbark	>200	-
56	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296895	6221996	Forest Red Gum	144	<10
57	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296899	6221991	Forest Red Gum	124	-
58	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296882	6221990	Forest Red Gum	>200	-
59	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296900	6221985	Forest Red Gum	78	-
60	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296899	6221984	Forest Red Gum	139	<10
61	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296899	6221980	Forest Red Gum	129	-
62	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296890	6221970	Broad-leaved Red Ironbark	>200	-
63	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296919	6221981	Grey Gum	164	-
64	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296923	6221987	Cabbage Gum	147	<10
65	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296927	6221985	Forest Red Gum	155	-

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#	Date	Position	Eastings	Northings	Tree Species	DBH (cm)	Scats
66	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296931	6221993	Grey Gum	>200	-
67	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296976	6221965	Narrow-leaved Ironbark	109	-
68	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296973	6221955	Narrow-leaved Ironbark	>200	-
69	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296984	6221960	Narrow-leaved Ironbark	97	-
70	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296985	6221962	Grey Gum	>200	10-20
71	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296993	6221952	Broad-leaved Red Ironbark	>200	-
72	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	297006	6221962	Grey Gum	>200	<10
73	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	297014	6221952	Grey Gum	>200	-
74	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	297026	6221940	Grey Gum	151	-
75	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	297021	6221940	Grey Gum	>200	-
76	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296992	6221931	Grey Gum	106	-
77	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296992	6221935	Grey Gum	92	-
78	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296989	6221937	Grey Gum	109	-
79	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296986	6221936	Grey Gum	>200	-
80	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296982	6221930	Rough-barked Apple	116	-
81	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296977	6221943	Grey Gum	>200	-
82	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296968	6221929	Grey Gum	>200	-
83	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296964	6221927	Grey Gum	129	-
84	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296963	6221932	Grey Gum	114	-
85	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296946	6221942	Forest Red Gum	>200	-
86	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296919	6221931	Narrow-leaved Ironbark	176	-
87	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296927	6221914	Grey Gum	>200	10-20
88	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296940	6221905	Grey Gum	91	-
89	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296929	6221893	Narrow-leaved Ironbark	93	-
90	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296916	6221901	Narrow-leaved Ironbark	126	-
91	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296913	6221898	Narrow-leaved Ironbark	139	-
92	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296913	6221895	Narrow-leaved Ironbark	87	-
93	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296906	6221892	Narrow-leaved Ironbark	120	-
94	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296907	6221883	Grey Gum	94	-
95	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296909	6221879	Narrow-leaved Ironbark	85	-
96	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296907	6221874	Grey Gum	111	-
97	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296915	6221873	Grey Gum	133	-
98	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296896	6221873	Narrow-leaved Ironbark	106	-
99	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296891	6221864	Grey Gum	116	-
100	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296884	6221874	Grey Gum	83	-

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#	Date	Position	Eastings	Northings	Tree Species	DBH (cm)	Scats
101	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296882	6221868	Grey Gum	116	-
102	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296879	6221863	Grey Gum	118	-
103	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296865	6221859	Grey Gum	101	-
104	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296863	6221866	Grey Gum	149	-
105	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296865	6221863	Grey Gum	>200	-
106	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296872	6221871	Grey Gum	>200	-
107	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296878	6221883	Grey Gum	>200	-
108	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296883	6221883	Grey Gum	142	-
109	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296881	6221885	Stringybark sp	128	-
110	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296880	6221852	Forest Red Gum	103	-
111	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296873	6221846	Grey Gum	106	-
112	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296870	6221839	Grey Gum	131	-
113	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296867	6221842	Rough-barked Apple	74	-
114	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296860	6221841	Grey Gum	136	-
115	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296858	6221837	Narrow-leaved Ironbark	121	-
116	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296855	6221842	Forest Red Gum	74	-
117	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296857	6221839	Forest Red Gum	72	-
118	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296857	6221834	Grey Gum	100	-
119	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296844	6221844	Grey Gum	>200	-
120	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296842	6221828	Forest Red Gum	150	-
121	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296840	6221827	Forest Red Gum	108	-
122	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296833	6221828	Forest Red Gum	90	-
123	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296833	6221821	Forest Red Gum	91	-
124	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296832	6221819	Forest Red Gum	130	-
125	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296829	6221818	Forest Red Gum	97	-
126	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296828	6221812	Forest Red Gum	173	-
127	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296833	6221808	Forest Red Gum	62	-
128	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296824	6221808	Forest Red Gum	85	-
129	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296826	6221805	Forest Red Gum	128	-
130	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296822	6221789	Grey Gum	>200	-
131	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296825	6221783	Forest Red Gum	105	-
132	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296812	6221782	Forest Red Gum	83	-
133	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296807	6221786	Forest Red Gum	145	-
134	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296805	6221791	Forest Red Gum	76	-
135	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296802	6221793	Forest Red Gum	196	-
136	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296802	6221790	Forest Red Gum	97	-

Koala Scat Survey, east of Appin Road

#	Date	Position	Eastings	Northings	Tree Species	DBH (cm)	Scats
137	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296801	6221786	Forest Red Gum	142	-
138	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296802	6221782	Forest Red Gum	120	-
139	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296797	6221781	Grey Gum	145	-
140	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296800	6221780	Forest Red Gum	91	-
141	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296804	6221773	Forest Red Gum	>200	-
142	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296794	6221765	Forest Red Gum	132	-
143	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296791	6221767	Forest Red Gum	140	-
144	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296790	6221768	Forest Red Gum	119	-
145	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296800	6221767	Forest Red Gum	77	-
146	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296796	6221762	Forest Red Gum	113	-
147	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296802	6221755	Forest Red Gum	111	-
148	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296802	6221756	Forest Red Gum	140	-
149	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296808	6221757	Forest Red Gum	85	-
150	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296811	6221750	Forest Red Gum	99	<10
151	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296825	6221758	Forest Red Gum	107	-
152	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296828	6221747	Grey Gum	184	-
153	19/02/2018	50-100m from forest edge; cleared below canopy; disturbed ground	296852	6221760	Forest Red Gum	135	-
154	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296856	6221755	Grey Gum	>200	-
155	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296856	6221738	Grey Gum	>200	20-30
156	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296885	6221746	Grey Gum	>200	<10
157	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296900	6221754	Narrow-leaved Ironbark	117	-
158	19/02/2018	Paddock Tree; <100m from forest edge	296912	6221735	Narrow-leaved Ironbark	>200	-
159	19/02/2018	Paddock Tree; <100m from forest edge	296953	6221714	Narrow-leaved Ironbark	147	-
160	19/02/2018	Paddock Tree; <100m from forest edge	296899	6221682	Narrow-leaved Ironbark	163	-
161	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296973	6221678	Rough-barked Apple	>200	-
162	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296972	6221679	Rough-barked Apple	108	-
163	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296986	6221690	Rough-barked Apple	131	-
164	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296994	6221672	Grey Gum	89	-
165	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296988	6221632	Grey Gum	100	-
166	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296988	6221629	Grey Gum	101	-
167	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296986	6221616	Grey Gum	>200	-
168	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296984	6221598	Grey Gum	193	-
169	19/02/2018	Paddock Tree; <100m from forest edge	296948	6221619	Grey Gum	>200	-
170	19/02/2018	Paddock Tree; <100m from forest edge	296934	6221618	Grey Gum	>200	-
171	19/02/2018	Paddock Tree; >100m from forest edge	296906	6221583	Grey Gum	>200	<10
172	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296951	6221531	Grey Gum	172	-

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#	Date	Position	Eastings	Northings	Tree Species	DBH (cm)	Scats
173	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296930	6221511	Grey Gum	167	-
174	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296907	6221487	Grey Gum	156	-
175	19/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296917	6221483	Grey Gum	151	-
176	20/02/2018	Trees <50m to Appin Road vegetation corridor	296270	6217598	Stringybark sp	49	-
177	20/02/2018	Trees <50m to Appin Road vegetation corridor	296273	6217597	Stringybark sp	65	-
178	20/02/2018	Trees <50m to Appin Road vegetation corridor	296274	6217599	Grey Gum	88	-
179	20/02/2018	Trees <50m to Appin Road vegetation corridor	296275	6217600	Stringybark sp	80	-
180	20/02/2018	Trees <50m to Appin Road vegetation corridor	296278	6217596	Stringybark sp	88	-
181	20/02/2018	Trees <50m to Appin Road vegetation corridor	296280	6217592	Grey Box	93	-
182	20/02/2018	Trees <50m to Appin Road vegetation corridor	296312	6217585	Grey Box	60	-
183	20/02/2018	Trees <50m to Appin Road vegetation corridor	296313	6217585	Grey Box	78	-
184	20/02/2018	Trees <50m to Appin Road vegetation corridor	296317	6217583	Grey Box	149	<10
185	20/02/2018	Trees <50m to Appin Road vegetation corridor	296314	6217588	Grey Box	83	-
186	20/02/2018	Trees <50m to Appin Road vegetation corridor	296326	6217582	Grey Box	52	-
187	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296545	6217434	Stringybark sp	93	-
188	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296541	6217446	Grey Gum	>200	<10
189	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296546	6217447	Narrow-leaved Ironbark	>200	-
190	20/02/2018	Forest edge	296552	6217452	Grey Gum	84	-
191	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296547	6217457	Grey Gum	>200	-
192	20/02/2018	Forest edge	296558	6217478	Narrow-leaved Ironbark	138	-
193	20/02/2018	Forest edge	296559	6217466	Grey Gum	114	-
194	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296533	6217456	Narrow-leaved Ironbark	110	-
195	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296530	6217456	Stringybark sp	107	-
196	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296526	6217470	Stringybark sp	>200	-
197	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296519	6217494	Grey Gum	132	-
198	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296517	6217497	Grey Gum	>200	-
199	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296524	6217508	Grey Gum	>200	-
200	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296549	6217589	Rough-barked Apple	138	-
201	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296551	6217604	Rough-barked Apple	129	-
202	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296548	6217621	Grey Gum	88	-
203	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296542	6217623	Rough-barked Apple	120	-
204	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296544	6217635	Grey Gum	>200	-
205	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296531	6217634	Rough-barked Apple	108	-
206	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296522	6217616	Rough-barked Apple	113	-
207	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296512	6217617	Rough-barked Apple	>200	-
208	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296504	6217623	Grey Gum	>200	-

Koala Scat Survey, east of Appin Road

#	Date	Position	Eastings	Northings	Tree Species	DBH (cm)	Scats
209	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296510	6217629	Grey Gum	198	-
210	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296504	6217638	Rough-barked Apple	>200	-
211	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296505	6217650	Grey Gum	116	-
212	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296510	6217653	Grey Gum	193	-
213	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296519	6217645	Rough-barked Apple	186	-
214	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296524	6217653	Grey Gum	117	-
215	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296524	6217650	Grey Gum	86	-
216	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296525	6217651	Grey Gum	82	-
217	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296520	6217650	Grey Gum	157	-
218	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296539	6217650	Grey Gum	>200	-
219	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296542	6217662	Blackbutt	109	-
220	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296538	6217670	Grey Gum	>200	-
221	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296548	6217675	Blackbutt	>200	-
222	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296533	6217665	Grey Gum	142	-
223	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296532	6217663	Rough-barked Apple	85	-
224	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296529	6217669	Grey Gum	173	-
225	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296528	6217675	Grey Gum	>200	<10
226	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296518	6217666	Grey Gum	>200	-
227	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296511	6217672	Grey Gum	>200	-
228	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296517	6217677	Grey Gum	71	-
229	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296510	6217687	Grey Gum	121	-
230	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296503	6217684	Grey Gum	115	-
231	20/02/2018	>100m from forest edge; cleared below canopy; disturbed ground	296500	6217681	Grey Gum	138	-
232	20/02/2018	Paddock Tree; >100m from forest edge	296491	6217708	Blackbutt	145	-
233	20/02/2018	Paddock Tree; >100m from forest edge	296491	6217714	Blackbutt	157	-
234	20/02/2018	Paddock Tree; >100m from forest edge	296503	6217710	Blackbutt	>200	<10
235	20/02/2018	Paddock Tree; >100m from forest edge	296486	6217704	Grey Gum	166	-
236	20/02/2018	Paddock Tree; >100m from forest edge	296483	6217711	Blackbutt	>200	-
237	20/02/2018	Paddock Tree; >100m from forest edge	296484	6217715	Blackbutt	89	-
238	20/02/2018	Paddock Tree; >100m from forest edge	296477	6217704	Blackbutt	120	-
239	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296503	6217742	Grey Gum	138	-
240	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296500	6217743	Grey Gum	>200	-
241	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296495	6217753	Grey Gum	84	-
242	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296496	6217755	Grey Gum	>200	-
243	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296489	6217755	Grey Gum	137	-
244	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296502	6217757	Grey Gum	182	-

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#	Date	Position	Eastings	Northings	Tree Species	DBH (cm)	Scats
245	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296500	6217753	Stringybark sp	65	-
246	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296506	6217757	Stringybark sp	81	-
247	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296513	6217753	Stringybark sp	138	-
248	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296513	6217754	Grey Gum	>200	-
249	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296510	6217756	Rough-barked Apple	101	-
250	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296510	6217765	Grey Gum	99	-
251	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296499	6217839	Blackbutt	>200	-
252	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296503	6217840	Blackbutt	192	-
253	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296503	6217839	Blackbutt	150	-
254	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296509	6217838	Blackbutt	>200	-
255	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296514	6217837	Blackbutt	>200	-
256	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296516	6217838	Grey Gum	64	-
257	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296521	6217837	Blackbutt	199	-
258	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296523	6217840	Blackbutt	>200	-
259	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296529	6217842	Grey Gum	>200	-
260	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296531	6217836	Rough-barked Apple	159	-
261	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296536	6217840	Grey Gum	94	-
262	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296537	6217843	Grey Gum	84	-
263	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296540	6217836	Rough-barked Apple	89	-
264	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296546	6217835	Blackbutt	148	-
265	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296545	6217836	Blackbutt	>200	-
266	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296548	6217839	Blackbutt	198	-
267	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296554	6217837	Blackbutt	>200	-
268	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296549	6217830	Blackbutt	133	-
269	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296552	6217834	Rough-barked Apple	84	-
270	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296555	6217832	Blackbutt	73	-
271	20/02/2018	Paddock Tree; <100m from forest edge	296536	6217875	Grey Gum	197	-
272	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296536	6217884	Rough-barked Apple	82	-
273	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296535	6217886	Rough-barked Apple	71	-
274	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296527	6217889	Rough-barked Apple	>200	-
275	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296528	6217895	Grey Gum	169	-
276	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296528	6217896	Grey Gum	134	-
277	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296552	6217889	Grey Gum	116	-
278	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296557	6217890	Grey Gum	>200	-
279	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296568	6217883	Grey Gum	>200	-
280	20/02/2018	Paddock Tree; <100m from forest edge	296565	6217796	Blackbutt	128	-

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#	Date	Position	Eastings	Northings	Tree Species	DBH (cm)	Scats
281	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296547	6217806	Grey Gum	98	-
282	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296542	6217807	Grey Gum	66	-
283	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296535	6217811	Grey Gum	121	-
284	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296519	6217757	Grey Gum	116	-
285	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296521	6217754	Blackbutt	178	-
286	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296523	6217758	Grey Gum	149	-
287	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296525	6217753	Grey Gum	165	-
288	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296530	6217754	Grey Gum	90	-
289	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296609	6217658	Grey Gum	>200	-
290	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296621	6217652	Grey Gum	108	10-20
291	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296623	6217645	Grey Gum	176	<10
292	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296623	6217637	Grey Gum	145	-
293	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296622	6217638	Grey Gum	123	-
294	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296617	6217631	Grey Gum	98	-
295	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296606	6217637	Grey Gum	157	<10
296	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296601	6217632	Grey Gum	124	<10
297	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296601	6217625	Grey Gum	145	-
298	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296606	6217622	Grey Gum	>200	<10
299	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296605	6217615	Blackbutt	105	-
300	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296596	6217614	Grey Gum	170	<10
301	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296589	6217608	Blackbutt	>200	-
302	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296589	6217605	Grey Gum	83	-
303	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296589	6217609	Rough-barked Apple	>200	-
304	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296574	6217609	Rough-barked Apple	151	-
305	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296577	6217624	Grey Gum	106	-
306	20/02/2018	Cleared below canopy; disturbed ground <50m from forest edge	296597	6217603	Grey Gum	>200	-