



Figure 5.1: Field validated vegetation (Ecoplanning 2017) and proposed footprint.

5.2 Onsite measure to avoid and minimise direct and indirect impacts

As described above, the complete avoidance of impacts is considered impractical as the fence cannot be placed outside native vegetation in all areas around the campus, and very few alternatives exist for the placement of the COLA. Indirect impacts from the proposal are negligible or non-existent. Several measures will be implemented to reduce impacts where possible. Details are provided below.

5.2.1 Loss of fauna habitat

A number of non-threatened fauna species such as birds, arboreal mammals and amphibians are likely to be present at the development site. Appropriate pre-clearance protocols will be put in place at the time of construction to avoid and mitigate any potential harm or injury to these individuals. These protocols are discussed below, and should be included as a component of the Construction Environmental Management Plan (see **Section 5.2.2**).

5.2.2 Construction Environmental Management Plan (CEMP)

To avoid potential indirect offsite impact during construction, an appropriate erosion and sedimentation control plan should be in place following best practice protocols such as Landcom (2004). It is recommended that this is included in a site specific Construction Environmental Management Plan (CEMP), prior to any construction works taking place.

The CEMP will be required to span the pre, during and post-construction period, and will include the above pre-clearance and fauna management protocols.

6. Impact summary

6.1 Thresholds for assessment and offsetting of unavoidable impacts of development

Section 9 of the FBA (OEH 2014) defines thresholds to be applied by the accredited assessor related to the assessment and offsetting of unavoidable impacts caused by development. A number of thresholds are defined, including:

1. impacts that the assessor is required to identify for further consideration by the consent authority;
2. impacts for which the assessor is required to determine an offset;
3. impacts for which the assessor is not required to determine an offset;
4. impacts that do not require further assessment by the assessor.

Point (2) applies due to the proposed impacts to a PCT associated with threatened species habitat. An offset must, therefore, be determined for the 0.22 ha impact to Dwarf Apple - Broad-leaved Scribbly Gum - Sydney Peppermint low open woodland on sandstone ridges with subtle enrichment in northern Sydney.

6.2 Ecosystem credits and species credits

6.2.1 Change in landscape value score

The loss in landscape score following the proposed development is **12** (**Table 6.1**). See **Section 2** for more information.

Table 6.1: Landscape score components.

Landscape score component	Score Awarded
Change in connectivity score	0
Increase in native vegetation cover (inner assessment circle) score	0
Increase in native vegetation cover (outer assessment circle) score	0
Patch size area score	12
Total	12

6.2.2 Current and future site value score

The current and future site value scores were calculated for the proposal. The plot and transect data collected was entered into the credit calculator, and a site value score of 71.35 was recorded for the vegetation zone assessed. Proposed clearing of this vegetation results in a future site value score of 0 for both vegetation zones (**Table 6.2**).

Table 6.2: Site values before and after development.

Vegetation type	Vegetation zone (condition class)	Total area impacted on development site (ha)	Site value score before development	Site value score after development
Dwarf Apple - Broad-leaved Scribbly Gum - Sydney Peppermint low open woodland on sandstone ridges with subtle enrichment in northern Sydney	Intact	0.12	71.35	0
	Underscrubbed	0.10		

6.2.3 Required ecosystem credits

The total number of ecosystem credits required is 12 credits.

6.2.4 Required species credits

There are no species credits required for the proposal.

7. Biodiversity Credit Report

7.1 Credit profiles

7.1.1 Ecosystem credits

The ecosystem credits required to offset the proposal are provided in **Table 7.1**. The final credit report produced by the credit calculator is provided in **Appendix D**.

Table 7.1: Ecosystem credits summary and credit profiles.

Plant community type (impact)	Vegetation zone (Condition Class)	Impact area (ha)	Credits required	Plant community type (offset options)	IBRA sub-region
Dwarf Apple - Broad-leaved Scribbly Gum - Sydney Peppermint low open woodland on sandstone ridges with subtle enrichment in northern Sydney	Intact	0.22	12	Dwarf Apple - Broad-leaved Scribbly Gum - Sydney Peppermint low open woodland on sandstone ridges with subtle enrichment in northern Sydney	Pittwater (Part B) and any IBRA subregion that adjoins the IBRA subregion in which the development occurs
Total	0.22	12		N/A	N/A

7.1.2 Species credits

No species credits were required for this assessment.

7.2 Biodiversity Offset Strategy

As described in **Section 7.1**, 12 credits are required to offset the proposed development. A number of options exist for the credit requirement to be satisfied, including:

- The purchase of matching credits from the Biobank market;
- The use of residual lands (either within the 100 Eton Road property or alternate locations) as an offset site to generate the required credits, with the land being secured under a Biobank Agreement (or equivalent);
- Payment into the proposed Biodiversity Conservation Fund (BCF) which is to be administered by the soon to be created Biodiversity Conservation Trust (BCT). This option would allow the payment of funds to satisfy the offset obligation, with the BCT required to obtain the biodiversity credits to satisfy the offset requirement.

It is noted that no credits of the type required are currently available in the Biobanking market. The proponent may seek to further investigate the Expression of Interest (EOI) register and may also utilise the Credits Wanted register in the future. The final offset solution to be used will be determined as the development application process proceeds.

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Appendix A: Field Data Sheets

BioMetric plots data sheet										ecoplanning				
Site name			Recorders		Thynns Lindfield			Date	ecology planning offsets					
Wapoint/ Plot ID	B801		Easting *		St: 33°47'53"	End: 33°47'45"	Northng	27/3/17	St: 151°9.5687	End: 151°9.5627				
			Photo no.	(1)	St: B801(Start)	End: B801(End)	Plot orient/ Slope/Aspect	NW	5° / 315° (NW)					
Plant Community Type	Hornsby Enriched Sandstone woodland (understorey)													
Ancillary code:														
Condition (Low or Mod-Good)	Good													
20 x 20m Quadrat	Number of native plant species		34								(NPS)			
NATIVE	50m Transect - 10 Points	Native over-storey cover (%)		815	0	0	0	0	5	10	40	40	11 % (NOS) Sum / 10	
	50m Transect - 50 Points	Native mid-storey cover (%)		30	29	5	25	5	30	0	5	0	0	12.5 % (NMS) Sum / 10
		Native ground cover (hits/50 points) - Grasses		1111	1111	1111	1111	1111	1111	1111	1111	1111	64 % (NGCG) Double score out of 50 to get %	
		Native ground cover (hits/50 points) - Shrubs		1111	1111	1111	1111	1111	1111	1111	1111	1111	8 % (NGCS) Double score out of 50 to get %	
EXOTIC	50m Transect - 10 points + 50 points	Overstorey (10 points)		0	0	0	0	0	0	0	0	0	0 (a) Sum/10	
		Midstorey (10 points)		0	0	0	0	0	0	0	0	0	0 (b) Sum/10	
		Ground (50 points)		0	0	0	0	0	0	0	0	0	0 (c) Double score	
	20m x 50m Quadrat	Number of trees with hollows		0	Total length fallen logs >10cm width (m)				4dm					
Whole Veg. Zone	Over-storey regeneration		All canopy spp. in Veg. Zone				Regen (Y/N)		Proportion					
	Eucalyptus sp		Y				Y		1					
Strata	Form	Species						Height range	PFC					
Upper 1	N/A	N/A						N/A	N/A					
Upper 2	N/A	N/A						N/A	N/A					
Mid 1	Tree/Shrub	Alchornea littoralis						5-6m	10%					
Mid 2	Vine	Eucalyptus sp						1-3m	1%					
Lower 1	Shrub/Tree	Micranthemum ericoides						0.2-1.0m	2%					
Lower 2	Sedge/Grass	Xanthosia tridentata						0.2-0.3m	2%					
Form: (T) Tree; (M) Mallee tree; (S) Shrub; (G) Tussock Grass (Poa/Themeda); (d) Sod grass (Couch/Kikuyu); (L) Vine/climber/scrambler; (V) Sedge (Cyperoid); (R) Rush (Restioid, Juncaceae); (F) Forb; (E) Fern; (P) Palm; (A) Cycad														

Site name PCT	Lindfield (Kuring-gai vts)			Plot no. Ancillary	Bm 01	Date	27/3/17	
	Natives (20m Quadrat)			F C A	Exotics (20m Quadrat)			F C A
OVERSTOREY								
1								
2								
3								
4								
5								
6								
7								
8								
MIDSTOREY								
1	<i>Allocasuarina torreana</i>	T	10	20				
2	<i>Eucalyptus (Stringy)</i>	T	1	5				
3								
4								
5								
6								
7								
8								
9								
10								
GROUND COVER / other								
1	<i>Micranthemum ericoides</i>	S	2	50	<i>Andropogon virginicus</i>	G	1	10
2	<i>Entolasia stricta</i>	G	1	100				
3	<i>Acacia suaveolens</i>	S	1	10				
4	<i>Dianella caerulea var. pallida</i>	G	1	20				
5	<i>Actinotis minor</i>	F	1	50				
6	<i>Dodonaea triquetra</i>	S	1	10				
7	<i>Aperularia hispida</i>	F	1	5				
8	<i>Polygonias sambucifolia</i>	S	1	20				
9	<i>Lomagramma sinuata</i>	G	1	50				
10	<i>Xanthosia glandulosa</i>	F	2	100	Native			
11	<i>Glochidion ferdinandii</i>	S	1	20	<i>Carrichtera sp.</i>	S	2	50
12	<i>Actinotis helianthi</i>	F	1	10	<i>Xanthosia media?</i>	G	1	10
13	<i>Amelanchier populifolia</i>	S	1	20	<i>Lomandra filiformis</i>	G	1	10
14	<i>Microseris strobliodes</i>	G	2	100	<i>Leptospermum trinervium</i>	S	2	50
15	<i>Bonaropetal teucrioides</i>	F	1	20	<i>Mirbelia rubrifolia</i>	S	1	1
16	<i>Eryngium species</i>	S	1	1	<i>Acacia longifolia</i>	S	1	1
17	<i>Billardiera scandens</i>	V	1	5	<i>Pultenaea elliptica</i>	S	1	5
18	<i>Grevillea buxifolia</i>	S	1	2	<i>Dillwynia retorta</i>	SE	1	5
19	<i>Bossiaea heterophylla</i>	S	1	5	<i>Goodenia heterophylla</i>	F	1	2
20	<i>Hibbertia aspera</i>	S	1	20				
21	<i>Entolasia marginata</i>	G	2	50				
22	<i>Casuarina flexuosa</i>	R	1	2				
23	<i>Asplenium flaccidum</i>	E	1	20				

* Cover (C): Estimate of the appropriate cover measure for each recorded species; from 1-5 and then to the nearest 5%.

Abundance (A): A relative measure of the number of individuals or shoots of a species within the plot. Use the following intervals, 1,2,3,4,5,6,7,8,9,10,20,50,100,500,1000 or specify a number greater than 1000 if required.

Form: * (T) Tree; (M) Mallee tree; (S) Shrub; (G) Tussock Grass (Poa/Themeda); (d) Sod grass (Couch/Kikuyu); (L) Vine/climber/scrambler; (V) Sedge (Cyperoid); (R) Rush (Restioid, Juncaceae); (F) Forb; (E) Fern; (P) Palm; (A) Cycad

Braun-blanquet: 1=<5% (rare, <3 individuals); 2=<5% (uncommon, scattered/localised); 3=<5% (common, consistent thru plot); 4a=<5% (very abundant, many individuals thru plot); 4b=5-25%; 5=25-50%; 6=50-75%; 7=75-100%

* Note: Cover and Abundance should be collected unless otherwise stated, as per Native Veg. Interim Type Standard (Siverstsen 2009)

BioMetric plot data sheet						ecoplanning
						ecology planning offsets
Site name	Lindfield w/s	Recorders	TP (TH)	Date	5-5-17	
Wapoint/ Plot ID	BB02	Easting BB02E	St: 0329751 End: 0329704 St: BB02 (Start) End: BB02 (End)	Northing*	St: 6259521 End: 6259490	
		Tom's ph Photo no. (Camera)		xPlot orient/ Slope/Aspect	243° 23° to SE (147°)	
Plant Community Type	CESDF					
Ancillary code	(Native)		Condition (Low or Mod-Good)	M-G		
20 x 20m Quadrat	Number of native plant species					43
NATIVE	50m Transect - 10 Points	Native over-storey cover (%)	40 35 45 35 40 70 65 60 35 30			43.5% (NOS) Sum / 10
	Native mid-storey cover (%)	0 0 0 0 0 1 0 0 0 1			0.2% (NMS) Sum / 10	
	50m Transect - 50 Points	Native ground cover (tally/50 points) - Grasses	1 1 1 1 1 1 1 1 1 1			1.4% (NGCG) Double score out of 50 to get %
		Native ground cover (tally/50 points) - Shrubs				2% (NGCS) Double score out of 50 to get %
	Native ground cover (tally/50 points) - other	1 1 1 1 1 1 1 1 1 1			2.0% (NGCO) Double score out of 50 to get %	
EXOTIC	50m Transect - 10 points + 50 points	Overstorey (% @ 10 points)	0 0 0 0 0 0 0 0 0 0	0 (a) Sum/10		Sum exotic cover (%) from (a)+(b)+(c)
	Midstorey (% @ 10 points)	0 0 0 0 0 0 0 0 0 0	0 (b) Sum/10		0 %	
	Ground (tally/50 points)			0 (c) Double score		
20m x 50m Quadrat	Number of trees with hollows	1 1 1 1 1 1 1 1 1 1	Total length fallen logs >10cm width (m)	1 1 1 1 1 1 1 1 1 1		
Whole Veg. Zone	Over-storey regeneration	All canopy spp. in Veg Zone			Regen (Y/N) (indiv. <5cm?)	Proportion
		<i>A. costata</i>	4			1 (based on name only)
		<i>E. p.p.</i>	4			
		(<i>E. grandis</i>)	0			
Strata	Form	Species			Height range	PFC
Upper 1		<i>Ang. costata</i>			5m - 18m	15
Upper 2		<i>E. p.p.</i>			8m - 15m	35
Mid 1		<i>Eucr. retic</i>			1.5 - 2.5	1
Mid 2		<i>Acacia irro</i>			0.5 - 3	1
Lower 1		<i>Xanth. arborea</i>			0 - 2	5
Lower 2		<i>Pteridium esculent</i>			0 - 1	3
Form: (T) Tree; (M) Mallee tree; (S) Shrub; (G) Tussock Grass (<i>Poa/Themeda</i>); (d) Sod grass (<i>Couch/Kikuyu</i>); (L) Vine/climber/scrambler; (V) Sedge (<i>Cyperoid</i>); (R) Rush (<i>Restioid</i> , <i>Juncaceae</i>); (F) Forb; (E) Fern; (P) Palm; (A) Cycad						
11 - nest box						

Site name	LINDFIELD			Plot no.	BB02	Date	5/05/11	
PCT				Ancillary				
<i>Coastal Enriched Sandstone Dry Forest</i>								
	Natives (20m Quadrat)			F C A	Exotics (20m Quadrat)			
	OVERSTOREY							
1	<i>Eucalyptus piperita</i>	T	15	5	<i>Eucalyptus grandis</i>	T	10	10
2	<i>Angophora costata</i>	T	5	10				
3								
4								
5								
6								
7								
8								
	MIDSTOREY							
1	<i>Olinymnia retorta</i>	S	1	5	<i>Grevillea sinuosa</i>	S	1	5
2	<i>Pittosporum undulatum</i>	S	2	50	<i>Senna pendula</i>	S	1	20
3	<i>Banksia serrata</i>	S	2	10	<i>Ligustrum lucidum</i>	S	1	2
4	<i>Smilax australis</i>	L	1	10	<i>Mitchella alba</i>	S	1	1
5	<i>Acacia suaveolens</i>	S	1	1	<i>Callistemon</i>	S	1	5
6	<i>Acacia irrorata</i>	S	1	5	<i>Lasiandra ferox</i>	S	1	2
7	<i>Acacia longifolia var. longifolia</i>	S	1	5	<i>Grevillea feddeana</i>	S	1	20
8	<i>Ceratopetalum gummiferum</i>	S	2	20	<i>Zieria smithii</i>	S	1	5
9	<i>Polyscias sambucifolia</i>	S	1	10	<i>Hakea marginata</i>	S	1	5
10	<i>Asperula terminalis</i>	S	1	5	<i>Allocasuarina littoralis</i>	S	1	2
*	<i>Leptospermum</i>	GROUNDCOVER / other			<i>Matthiola lanceolata</i>	S	1	5
1	<i>Hibbertia dentata</i>	L	1	10	<i>Asperula aethiopica</i>	F	1	10
2	<i>Eleocarpus ruficollis</i>	S	1	10	<i>Chionospermum papuanum</i>	S	1	10
3	<i>Dianella caerulea var. pallida</i>	R	1	20	<i>Cynanchum camphorum</i>	S	1	2
4	<i>Lomandra longifolia</i>	R	2	50	<i>Nephrolepis cordifolia</i>	F	1	10
5	<i>Styphnoloma prostratum</i>	R	1	50	<i>Sophora mooriana</i>	S	1	5
6	<i>Homalocladium pulchellum</i>	S	1	20	<i>Phyllanthus tenellus</i>	S	1	20
7	<i>Kraussia floribunda</i>	L	1	50	<i>Bidens pilosa</i>	F	1	10
8	<i>Microseris stipitodes</i>	G	1	20	<i>Rubus fruticosus</i>	L	1	2
9	<i>Acetosella vulgaris</i>				<i>Agapanthus praecox</i>	F	1	5
10	<i>Entolasia stricta</i>	G	1	10	<i>Agave attenuata</i>	F	1	1
11	<i>Opismonva acuminata</i>	G	1	20	<i>Solanum nigrum</i>	S	1	5
12	<i>Xanthorea arborea</i>	G	15	50				
13	<i>Billardiera scandens</i>	L	1	10				
14	<i>Lomandra obliqua</i>	R	1	20				
*	<i>Desmodium</i>	L	1	5				
16	<i>Gardenia heterophylla</i>	F	1	10				
17	<i>Opercularia</i>	F	1	5				
*	<i>Acianthes</i>	F	1	20				
19	<i>Cryptostylis erecta</i>	F	1	20				
20	<i>Lithothamnion tectorum</i>	L	1	10				
*	<i>Blechnum</i>	F	1	5				
22	<i>Bossiaea heterophylla</i>	S	1	2				
23	<i>Calochlaena dubia</i>	F	1	20	<i>Keraudrenia rubicunda</i>	L	1	5
* Cover (C): Estimate of the appropriate cover measure for each recorded species; from 1-5 and then to the nearest 5%.								
Abundance (A): A relative measure of the number of individuals or shoots of a species within the plot. Use the following intervals: 1,2,3,4,5,6,7,8,9,10,20,50,100,500,1000 or specify a number greater than 1000 if required.								
Form: * (T) Tree; (M) Mallee tree; (S) Shrub; (G) Tussock Grass (Poa/Themeda); (d) Sod grass (Couch/Kikuyu); (L) Vine/climber/scrambler; (V) Sedge (Cyperoid); (R) Rush (Rushoid, Juncaceae); (F) Forb; (E) Fern; (P) Palm; (A) Cycad								
Braun-blanquet: 1=<5% (rare, <3 individuals); 2=<5% (uncommon, scattered/localised); 3=<5% (common, consistent thru plot); 4a=<5% (very abundant, many individuals thru plot); 4b=5-25%; 5=25-50%; 6=50-75%; 7=75-100%								
* Note: Cover and Abundance should be collected unless otherwise stated, as per Native Veg. Interim Type Standard (Sivertsen 2009)								

BioMetric plot data sheet

ecoplanning

ecology | planning | offsets

Site name	Lindfield	Recorders	Tammy	Date	5/05/17
Wa point/ Plot ID	BB03	Easting *	St: 33°47'24.4"E End: 33°47'19.9"E	Northing*	St: 151°09'47.6"S End: 151°09'41.1"S
		Photo no. (Camera)	St: BB03 (start) End: BB03 (end)	xPlot orient/ Slope/Aspect	NW (330°) 20° E (75°)

Plant Community Type	Hornsby Enriched Sandstone Exposed woodland
Ancillary code	Condition (Low or Mod-Good)

20 x 20m Quadrat		Number of native plant species											45 (NPS)
NATIVE	50m Transect - 10 Points	Native over-storey cover (%)	25	15	20	30	20	30	45	15	20	10	24 % (NOS) Sum / 10
		Native mid-storey cover (%)	25	10	0	5	15	3	5	35	10	40	17.5% (NMS) Sum / 10
		Native ground cover (tally/50 points) – Grasses	4	1	1	1	1	1	1	1	1	1	40% (NGCG) Double score out of 50 to get %
EXOTIC	50m Transect - 50 Points	Native ground cover (tally/50 points) – Shrubs	1	1	1	1	1	1	1	1	1	1	18% (NGCS) Double score out of 50 to get %
		Native ground cover (tally/50 points) – other	1	1	1	1	1	1	1	1	1	1	17% (NGCO) Double score out of 50 to get %
	50m Transect - 10 points + 50 points	Overstorey (% @ 10 points)	0	0	0	0	0	0	0	0	0	0	0 (a) Sum/10
20m x 50m Quadrat		Midstorey (% @ 10 points)	0	0	0	0	0	0	0	0	0	0	0 (b) Sum/10
		Ground (tally/50 points)	0	0	0	0	0	0	0	0	0	0	0 (c) Double score
20m x 50m Quadrat		Number of trees with hollows	0	Total length fallen logs >10cm width (m)				15m					
Whole Veg. Zone		Over-storey regeneration	All canopy species in Veg. Zone				Regen (Y/N) (indiv. <5cm?)				Proportion		
Strata	Form	Species											
Upper 1	T	Corymbia gummifera					8-10m				35%		
Upper 2	T	Eucalyptus haemastoma					7-8m				15%		
Mid 1	S	Alloraularia littoralis					5-6m				10%		
Mid 2	S	Banksia serrata					3-4m				3%		
Lower 1	G	Xanthorea					0.5-1m				10%		
Lower 2	R	Lomandra longifolia					1-2m				2%		

Form: (T) Tree; (M) Mallee tree; (S) Shrub; (G) Tussock Grass (Poa/Themeda); (d) Sod grass (Couch/Kikuyu); (L) Vine/climber/scrambler; (V) Sedge (Cyperoid); (R) Rush (Restioid, Juncaceae); (F) Fern; (P) Palm; (A) Cycad

Site name	Lindfield	Plot no.	B803	Date	5-5-17
PCT	HESW	Ancillary			
	Natives (20m Quadrat)	F C A	Exotics (20m Quadrat)	F C A	
OVERSTOREY					
1	Corymbia gumm	T 35 9			
2	E. haem	T 15 4			
3	Ang grass	T 10 1			
4					
5					
6					
7					
8					
MIDSTOREY					
1	Allocas litt	T 2 6	Dod triq	S 1 2	
2	Bauzer.	T 3 5	Pimelea lin	S 1 1	
3	Hawea seacea	S 2 10	Persoonia laev.	S 1 1	
4	Microth enc	S 1 50	Lambertia formosa	S 1 1	
5	Ang juv	T 1 1	Acacia suav.	S 1 2	
6	Personna pio	T 1 1	Unknown Ⓛ	S 1 2	
7	Anabolanthus pop	T 1 1	Acacia long-	S 1 2	
8	Juv euc	T 1 1	EX Elettyn sp		
9	Pittos und	T 1 1			
10	Petro pulch	S 1 2	Lepto mnr	S 1 1	
GROUNDCOVER / other Exotic					
1	Lepido fil.	V 10 100	Asparagus aspar.	V 2 1 10	
2	Lomandra long	R 2 20	Ahra serr	S 1 2	
3	Lomandra obliqua	R 1 20	C 2 20		
4	Cyatho diandra	R 1 20	Scorzonera sp?	S 1 1	
5	Xanth D (S)	G 10 20			
6	Petersonia seacea var gib	R 1 20			
7	Lepido lat	V 5 100			
8	Anisopogon and	G 1 2			
9	Ento stricta	G 1 100			
10	Dianella caerulea var pro	G 1 20	Ento marg	G 2 50	
11	Phyllanthus hirtellus	F 1 50	Boss scelloe	F 1 1	
12	Actinotis ornata	R 1 1	Stro acuminata	O 1 1	
13	Cassytha pub	V 1 1 2	Schoenus apogon	R 1 1	
14	Reed var	F 1 1			
15	Blue/grey sedge (S)	V 1 1			
16	Ptilothrix dactyl	R 1 10			
17	Lomardia multi	R 1 2			
18	Caen. flex	R 1 20			
19	Caesia for var for	F 1 1			
20	Lomandra fili var. 200	R 1 50			
21	Crypt. acete	O 1 5			
22	Crypt. subo	O 1 50			
23	Hyp aspera	F 1 5			
<small>* Cover (C): Estimate of the appropriate cover measure for each recorded species; from 1-5 and then to the nearest 5%. Abundance (A): A relative measure of the number of individuals or shoots of a species within the plot. Use the following intervals, 1,2,3,4,5,6,7,8,9,10,20,50,100,500,1000 or specify a number greater than 1000 if required. Form: * (T) Tree; (M) Mallee tree; (S) Shrub; (G) Tufted Grass (Poa/Themeda); (d) Sod grass (Couch/Kikuyu); (L) Vine/climber/scrambler; (V) Sedge (Cyperid); (R) Rush (Restioid, Juncaceae); (F) Forb; (E) Fern; (P) Palm; (A) Cycad Braun-blanquet: 1=<5% (rare, <3 individuals); 2=<5% (uncommon, scattered/localised); 3=<5% (common, consistent thru plot); 4a=<5% (very abundant, many individuals thru plot); 4b=5-25%; 5=25-50%; 6=50-75%; 7=75-100%</small>					
<small>* Note: Cover and Abundance should be collected unless otherwise stated, as per Native Veg. Interim Type Standard (Swartzen 2009)</small>					

Appendix B: Likelihood Table

Scientific Name Common Name	Legal Status	Number of records	Closest record and date	Most recent and proximity	Likelihood of occurrence	
					Prior to field assessment	Post field assessment
KINGDOM: Animalia; CLASS: Amphibia						
<i>Heleioporus australiacus</i> Giant Burrowing Frog	EPBC Act: V TSC Act: V	0	N/A	N/A	Not present	Not present
<i>Litoria aurea</i> Green and Golden Bell Frog	EPBC Act: V TSC Act: E	1	4.25 km (5/03/1999)	5/03/1999 (4.25 km)	Low	Not present
<i>Pseudophryne australis</i> Red-crowned Toadlet	TSC Act: V	33	0.2 km (1/12/2003)	4/02/2012 (2.56 km)	Moderate	Low
KINGDOM: Animalia; CLASS: Aves						
<i>Apus pacificus</i> Fork-tailed Swift	EPBC Act: C, J, K	1	0.77 km (30/12/2004)	30/12/2004 (0.77 km)	Low	Low
<i>Botaurus poiciloptilus</i> Australasian Bittern	EPBC Act: E TSC Act: E1	2	1.15 km (30/10/2000)	23/06/2011 (1.39 km)	Low	Not present
<i>Callocephalon fimbriatum</i> Gang-Gang Cockatoo	TSC Act: V	4	4.86 km (20/11/2004)	20/11/2004 (4.86 km)	Moderate	Low
<i>Calyptorhynchus lathami</i> Glossy Black-Cockatoo	TSC Act: V	5	1.11 km (30/12/2004)	23/07/2005 (3.33 km)	Moderate	Low
<i>Daphoenositta chrysopera</i> Varied Sittella	TSC Act: V	2	3.91 km (7/04/1997)	10/01/2004 (4.04 km)	Low	Low
<i>Egretta sacra</i> Eastern Reef Egret	EPBC Act: C	1	4.1 km (10/01/2004)	10/01/2004 (4.1 km)	Not present	Not present

Scientific Name Common Name	Legal Status	Number of records	Closest record and date	Most recent and proximity	Likelihood of occurrence	
					Prior to field assessment	Post field assessment
<i>Ephippiorhynchus asiaticus</i> Black-necked Stork	TSC Act: E1	1	2.63 km (25/10/2004)	25/10/2004 (2.63 km)	Not present	Not present
<i>Glossopsitta pusilla</i> Little Lorikeet	TSC Act: V	1	0.77 km (30/12/2004)	30/12/2004 (0.77 km)	Low	Low
<i>Haliaeetus leucogaster</i> White-bellied Sea-Eagle	TSC Act: V	30	0.27 km (30/12/2004)	15/10/2011 (4.9 km)	Moderate	Not present
<i>Hieraetus morphnoides</i> Little Eagle	TSC Act: V	2	0.77 km (30/12/2004)	30/12/2004 (0.77 km)	Low	Low
<i>Hirundapus caudacutus</i> White-throated Needletail	EPBC Act: C, J, K	13	0.27 km (30/12/2004)	30/12/2004 (0.27 km)	Low	Low
<i>Ixobrychus flavicollis</i> Black Bittern	TSC Act: V	6	0.48 km (6/08/2008)	1/10/2009 (0.77 km)	Low	Not present
<i>Lathamus discolor</i> Swift Parrot	EPBC Act: CE TSC Act: E1	6	0.42 km (20/04/2002)	30/05/2007 (4.35 km)	Moderate	Low
<i>Ninox connivens</i> Barking Owl	TSC Act: V	7	0.29 km (28/09/2007)	13/05/2014 (3.11 km)	Moderate	Moderate
<i>Ninox strenua</i> Powerful Owl	TSC Act: V	221	0.31 km (8/11/1998)	1/08/2016 (0.95 km)	High	Moderate
<i>Pandion cristatus</i> Eastern Osprey	TSC Act: V	4	1.54 km (31/05/2012)	31/05/2012 (1.54 km)	Low	Low
KINGDOM: Animalia; CLASS: Mammalia						
<i>Cercartetus nanus</i> Eastern Pygmy-possum	TSC Act: V	1	4.13 km (15/10/2004)	15/10/2004 (4.13 km)	Moderate	Low

Scientific Name Common Name	Legal Status	Number of records	Closest record and date	Most recent and proximity	Likelihood of occurrence	
					Prior to field assessment	Post field assessment
<i>Dasyurus maculatus</i> Spotted-tailed Quoll	TSC Act: V EPBC Act: E	1	2.27 km (9/01/2002)	9/01/2002 (2.27 km)	Moderate	Low
<i>Isoodon obesulus obesulus</i> Southern Brown Bandicoot (eastern)	TSC Act: E1 EPBC Act: E	1	4.92 km (20/09/2011)	20/09/2011 (4.92 km)	Moderate	Low
<i>Miniopterus schreibersii oceanensis</i> Eastern Bentwing-bat	TSC Act: V	24	0.74 km (18/09/2012)	26/04/2016 (3.92 km)	High	Recent record
<i>Mormopterus norfolkensis</i> Eastern Freetail-bat	TSC Act: V	2	4.04 km (9/01/2004)	31/03/2005 (4.57 km)	Low	Low
<i>Myotis macropus</i> Southern Myotis	TSC Act: V	3	3.76 km (9/02/2016)	9/02/2016 (3.76 km)	Low	Low
<i>Petauroides volans</i> Greater Glider	EPBC Act: V	1	4.29 km (24/02/2004)	24/02/2004 (4.29 km)	Low	Not present
<i>Petaurus australis</i> Yellow-bellied Glider	TSC Act: V	1	0.67 km (20/01/1999)	20/01/1999 (0.67 km)	Low	Not present
<i>Phascolarctos cinereus</i> Koala	EPBC Act: V TSC Act: V	0	N/A	N/A	Not present	Not present
<i>Pteropus poliocephalus</i> Grey-headed Flying-fox	TSC Act: V	540	0.6 km (1/12/2001)	25/04/2016 (3.92 km)	High	Moderate
<i>Scoteanax rueppellii</i> Greater Broad-nosed Bat	TSC Act: V	1	3.76 km (9/02/2016)	9/02/2016 (3.76 km)	Low	Low
KINGDOM: Animalia; CLASS: Reptilia						
<i>Hoplocephalus bungaroides</i> Broad-headed Snake	EPBC Act: V TSC Act: E	0	N/A	N/A	Not present	Not present

Scientific Name Common Name	Legal Status	Number of records	Closest record and date	Most recent and proximity	Likelihood of occurrence	
					Prior to field assessment	Post field assessment
<i>Varanus rosenbergi</i> Rosenberg's Goanna	TSC Act: V	3	3.67 km (30/11/2002)	30/11/2002 (3.67 km)	Moderate	Low
KINGDOM: Plantae						
<i>Callistemon linearifolius</i> Nettled Bottle Brush	TSC Act: V	4	2.01 km (6/11/2000)	23/05/2001 (3.99 km)	Low	Not present
<i>Darwinia biflora</i>	EPBC Act: V TSC Act: V	146	0.18 km (13/10/2003)	16/05/2014 (2.61 km)	High	Low. Although occurs outside of the study area.
<i>Epacris purpurascens</i> var. <i>purpurascens</i>	TSC Act: V	9	0.22 km (4/01/1999)	16/05/2014 (3.76 km)	Moderate	Low
<i>Eucalyptus camfieldii</i> Camfield's Stringybark	TSC Act: V EPBC Act: V	3	4.3 km (19/08/2011)	24/11/2001 (4.8 km)	Low	Low
<i>Grevillea parviflora</i> subsp. <i>parviflora</i> Small-flower Grevillea	EPBC Act: V TSC Act: V	1	3.13 km (20/08/2009)	20/08/2009 (3.13 km)	Low	Low
<i>Hibbertia puberula</i>	TSC Act: V	0	N/A	N/A	Not present	Not present
<i>Hibbertia spanantha</i> Julian's Hibbertia	EPBC Act: CE TSC Act: E4A	1	1.91 km (15/09/2014)	15/09/2014 (1.91 km)	Low	Low
<i>Lasiopetalum joyceae</i>	EPBC Act: V TSC Act: V	1	4.8 km (23/11/2005)	23/11/2005 (4.8 km)	Low	Low
<i>Melaleuca deanei</i> Deane's Paperbark	EPBC Act: V TSC Act: V	2	3.76 km (9/02/2016)	9/02/2016 (3.76 km)	Low	Low
<i>Microtis angusii</i> Angus's Onion Orchid	EPBC Act: E TSC Act: E	0	N/A	N/A	Not present	Not present

Scientific Name Common Name	Legal Status	Number of records	Closest record and date	Most recent and proximity	Likelihood of occurrence	
					Prior to field assessment	Post field assessment
<i>Pimelea curviflora</i> var. <i>curviflora</i>	EPBC Act: V TSC Act: V	1	3.89 km (1/03/2007)	1/03/2007 (3.89 km)	Low	Low
<i>Prostanthera marifolia</i> Seaforth Mintbush	EPBC Act: CE TSC Act: CE	0	N/A	N/A	Not present	Not present
<i>Syzygium paniculatum</i> Magenta Lilly Pilly	TSC Act: E EPBC Act: V	10	1.64 km (26/08/2008)	22/04/2014 (1.96 km)	Low	Low
<i>Tetrahiteca glandulosa</i>	TSC Act: V	2	4.3 km (28/10/2001)	28/10/2001 (4.3 km)	Low	Low
KINGDOM: Fungi						
<i>Camarophyllopsis kearneyi</i>	TSC Act: E1	1	2.86 km (13/06/1998)	13/06/1998 (2.86 km)	Low	Low
<i>Hygrocybe anomala</i> var. <i>ianthinomarginata</i>	TSC Act: V	1	2.86 km (13/06/1998)	13/06/1998 (2.86 km)	Low	Low
<i>Hygrocybe austropratensis</i>	TSC Act: E1	1	2.86 km (7/06/1998)	7/06/1998 (2.86 km)	Low	Low
<i>Hygrocybe collucera</i>	TSC Act: E1	1	4.03 km (12/06/1999)	12/06/1999 (4.03 km)	Low	Low
<i>Hygrocybe griseoramosa</i>	TSC Act: E1	1	4.03 km (29/05/1999)	29/05/1999 (4.03 km)	Low	Low
<i>Hygrocybe lanecovensis</i>	TSC Act: E1	1	2.86 km (23/08/1998)	23/08/1998 (2.86 km)	Low	Low
<i>Hygrocybe reesiae</i>	TSC Act: V	1	2.86 km (6/07/1998)	6/07/1998 (2.86 km)	Low	Low
<i>Hygrocybe rubronivea</i>	TSC Act: V	1	2.86 km (7/06/1998)	7/06/1998 (2.86 km)	Low	Low

Appendix C: Flora and fauna species inventories

Flora

Family	Genus	Species	Common name	Native/Exotic
Alliaceae	<i>Agapanthus</i>	<i>praecox</i>	African Lily	Exotic
Anthericaceae	<i>Caesia</i>	<i>parviflora</i> var. <i>parviflora</i>	Pale Grass-lily	Native
Apiaceae	<i>Actinotus</i>	<i>minor</i>	Lesser Flannel Flower	Native
Apiaceae	<i>Actinotus</i>	<i>helianthi</i>	Flannel Flower	Native
Apiaceae	<i>Platysace</i>	<i>lanceolata</i>	Shrubby Platysace	Native
Apiaceae	<i>Xanthosia</i>	<i>tridentata</i>	Rock Xanthosia	Native
Araliaceae	<i>Polyscias</i>	<i>sambucifolia</i>	Elderberry Panax	Native
Asparagaceae	<i>Asparagus</i>	<i>aethiopicus</i>	Ground Asparagus	Exotic
Aspleniaceae	<i>Asplenium</i>	<i>flabellifolium</i>	Necklace Fern	Native
Asteraceae	<i>Bidens</i>	<i>pilosa</i>	Cobblers Peg	Exotic
Blechnaceae	<i>Blechnum</i>	sp.		Native
Casuarinaceae	<i>Allocasuarina</i>	<i>littoralis</i>	Black She-oak	Native
Cunoniaceae	<i>Ceratopetalum</i>	<i>gummiferum</i>	New South Wales Christmas-bush	Native
Cyperaceae	<i>Caustis</i>	<i>flexuosa</i>	Curly Wig	Native
Cyperaceae	<i>Cyathochaeta</i>	<i>diandra</i>		Native
Cyperaceae	<i>Lepidosperma</i>	<i>filiforme</i>		Native
Cyperaceae	<i>Lepidosperma</i>	<i>laterale</i>		Native
Cyperaceae	<i>Ptilothrix</i>	<i>deusta</i>		Native
Cyperaceae	<i>Schoenus</i>	<i>apogon</i>	Common Bog-rush	Native
Dicksoniaceae	<i>Calochlaena</i>	<i>dubia</i>	Rainbow Fern	Native
Dilleniaceae	<i>Hibbertia</i>	<i>aspera</i>	Rough Guinea Flower	Native
Dilleniaceae	<i>Hibbertia</i>	<i>dentata</i>	Trailing Guinea Flower	Native
Elaeocarpaceae	<i>Elaeocarpus</i>	<i>reticulatus</i>	Blueberry Ash	Native
Euphorbiaceae	<i>Homalanthus</i>	<i>populifolius</i>	Bleeding Heart	Native
Fabaceae - Caesalpiniodeae	<i>Senna</i>	<i>pendula</i> var. <i>glabrata</i>		Exotic

Family	Genus	Species	Common name	Native/Exotic
Fabaceae - Faboideae	<i>Bossiaea</i>	<i>heterophylla</i>	Variable Bossiaea	Native
Fabaceae - Faboideae	<i>Bossiaea</i>	<i>scolopendria</i>		Native
Fabaceae - Faboideae	<i>Desmodium</i>	sp.		Native
Fabaceae - Faboideae	<i>Dillwynia</i>	<i>retorta</i>		Native
Fabaceae - Faboideae	<i>Mirbelia</i>	<i>rubifolia</i>	Heathy Mirbelia	Native
Fabaceae - Faboideae	<i>Pultenaea</i>	<i>tuberculata</i>	Wreath Bush-pea	Native
Fabaceae - Mimosoideae	<i>Acacia</i>	<i>suaveolens</i>	Sweet Wattle	Native
Fabaceae - Mimosoideae	<i>Acacia</i>	<i>irrorata</i>	Green Wattle	Native
Fabaceae - Mimosoideae	<i>Acacia</i>	<i>terminalis</i>	Sunshine Wattle	Native
Fabaceae - Mimosoideae	<i>Acacia</i>	<i>longifolia</i> subsp. <i>longifolia</i>	Sydney Golden Wattle	Native
Goodeniaceae	<i>Goodenia</i>	<i>heterophylla</i>		Native
Haloragaceae	<i>Gonocarpus</i>	<i>teucrioides</i>	Raspwort	Native
Iridaceae	<i>Patersonia</i>	<i>sericea</i>	Silky Purple-flag	Native
Lauraceae	<i>Cassytha</i>	<i>pubescens</i>		Native
Lauraceae	<i>Cinnamomum</i>	<i>camphora</i>	Camphor Laurel	Exotic
Lomandraceae	<i>Lomandra</i>	<i>filiformis</i>	Wattle Mat-rush	Native
Lomandraceae	<i>Lomandra</i>	<i>longifolia</i>	Spiny-headed Mat-rush	Native
Lomandraceae	<i>Lomandra</i>	<i>obliqua</i>		Native
Lomandraceae	<i>Lomandra</i>	<i>multiflora</i>	Many-flowered Mat-rush	Native
Lomariopsidaceae	<i>Nephrolepis</i>	<i>cordifolia</i>	Fishbone Fern	Exotic
Luzuriagaceae	<i>Eustrephus</i>	<i>latifolius</i>	Wombat Berry	Native
Malvaceae	<i>Lasiopteratum</i>	<i>ferrugineum</i>		Native
Moraceae	<i>Morus</i>	<i>alba</i>	White Mulberry	Exotic
Myrtaceae	<i>Angophora</i>	<i>costata</i>	Sydney Red Gum	Native
Myrtaceae	<i>Angophora</i>	<i>crassifolia</i>		Native
Myrtaceae	<i>Callistemon</i>	sp.		Native
Myrtaceae	<i>Corymbia</i>	<i>gummifera</i>	Red Bloodwood	Native
Myrtaceae	<i>Eucalyptus</i>	<i>piperita</i>	Sydney Peppermint	Native
Myrtaceae	<i>Eucalyptus</i>	<i>grandis</i>	Flooded Gum	Native
Myrtaceae	<i>Eucalyptus</i>	<i>haemastoma</i>	Scribbly Gum	Native

Family	Genus	Species	Common name	Native/Exotic
Myrtaceae	<i>Leptospermum</i>	<i>trinervium</i>	Flaky-barked Tea-tree	Native
Myrtaceae	<i>Leptospermum</i>	sp.		Native
Ochnaceae	<i>Ochna</i>	<i>serrulata</i>	Mickey Mouse Plant	Exotic
Oleaceae	<i>Ligustrum</i>	<i>lucidum</i>	Large-leaved Privet	Exotic
Oleaceae	<i>Ligustrum</i>	<i>sinense</i>	Small-leaved Privet	Exotic
Orchidaceae	<i>Acianthus</i>	sp.		Native
Orchidaceae	<i>Cryptostylis</i>	<i>subulata</i>	Large Tongue Orchid	Native
Orchidaceae	<i>Cryptostylis</i>	<i>erecta</i>	Bonnet Orchid	Native
Orchidaceae	<i>Pterostylis</i>	<i>acuminata</i>	Pointed Greenhood	Native
Pastel Flower	<i>Pseuderanthemum</i>	<i>variable</i>	Pastel Flower	Native
Phormiaceae	<i>Dianella</i>	<i>caerulea var. producta</i>		Native
Phyllanthaceae	<i>Billardiera</i>	<i>scandens</i>	Hairy Apple Berry	Native
Phyllanthaceae	<i>Glochidion</i>	<i>ferdinandi</i>	Cheese Tree	Native
Phyllanthaceae	<i>Phyllanthus</i>	<i>tenellus</i>	Hen and Chicken	Exotic
Phyllanthaceae	<i>Phyllanthus</i>	<i>hirtellus</i>	Thyme Spurge	Native
Phyllanthaceae	<i>Pittosporum</i>	<i>undulatum</i>	Native Daphne	Native
Picrodendraceae	<i>Micranthemum</i>	<i>ericoides</i>		Native
Poaceae	<i>Andropogon</i>	<i>virginicus</i>	Whisky Grass	Exotic
Poaceae	<i>Anisopogon</i>	<i>avenaceus</i>	Oat Speargrass	Native
Poaceae	<i>Entolasia</i>	<i>marginata</i>	Bordered Panic	Native
Poaceae	<i>Entolasia</i>	<i>stricta</i>	Wiry Panic	Native
Poaceae	<i>Microlaena</i>	<i>stipoides</i> subsp. <i>stipoides</i>	Weeping Grass	Native
Poaceae	<i>Oplismenus</i>	<i>aemulus</i>	Australian Basket Grass	Native
Poaceae	<i>Panicum</i>	<i>simile</i>	Two-colour Panic	Native
Proteaceae	<i>Banksia</i>	<i>serrata</i>	Old-man Banksia	Native
Proteaceae	<i>Banksia</i>	<i>marginata</i>	Silver Banksia	Native
Proteaceae	<i>Grevillea</i>	<i>speciosa</i>	Red Spider Flower	Native
Proteaceae	<i>Hakea</i>	<i>sericea</i>	Needlebush	Native
Proteaceae	<i>Lambertia</i>	<i>formosa</i>	Mountain Devil	Native
Proteaceae	<i>Persoonia</i>	<i>pinifolia</i>	Pine-leaved Geebung	Native

Family	Genus	Species	Common name	Native/Exotic
Proteaceae	<i>Persoonia</i>	<i>levis</i>	Broad-leaved Geebung	Native
Proteaceae	<i>Petrophile</i>	<i>pulchella</i>	Conesticks	Native
Rosaceae	<i>Rubus</i>	<i>fruticosus</i>	Blackberry	Exotic
Rubiaceae	<i>Opercularia</i>	<i>hispida</i>	Hairy Stinkweed	Native
Rutaceae	<i>Zieria</i>	<i>smithii</i>	Sandfly Zieria	Native
Sapindaceae	<i>Alectryon</i>	sp.		Exotic
Sapindaceae	<i>Dodonaea</i>	<i>triquetra</i>	Large-leaf Hop-bush	Native
Smilacaceae	<i>Smilax</i>	<i>glyciphylla</i>	Sweet Sarsaparilla	Native
Solanaceae	<i>Solanum</i>	<i>mauritianum</i>	Wild Tobacco Bush	Exotic
Solanaceae	<i>Solanum</i>	<i>nigrum</i>	Black-berry Nightshade	Exotic
Stylidiaceae	<i>Stylium</i>	<i>productum</i>		Native
Thymelaeaceae	<i>Pimelea</i>	<i>linifolia</i>	Slender Rice Flower	Native
Vitaceae	<i>Cayratia</i>	<i>clematidea</i>	Native Grape	Native
Xanthorrhoeaceae	<i>Xanthorrhoea</i>	<i>arborea</i>		Native
Xanthorrhoeaceae	<i>Xanthorrhoea</i>	<i>media</i>	Grass Tree	Native

Fauna

Class	Family	Scientific name	Common name	Native/ Exotic	Observation type
Amphibia	Limnodynastidae	<i>Limnodynastes peronii</i>	Brown-striped Frog	Native	W
Amphibia	Myobatrachidae	<i>Crinia signifera</i>	Common Eastern Froglet	Native	W
Aves	Accipitridae	<i>Accipiter cirrocephalus</i>	Collared Sparrowhawk	Native	Q
Aves	Artamidae	<i>Cracticus tibicen</i>	Australian Magpie	Native	OW
Aves	Artamidae	<i>Cracticus torquatus</i>	Grey Butcherbird	Native	W
Aves	Artamidae	<i>Strepera graculina</i>	Pied Currawong	Native	W
Aves	Cacatuidae	<i>Cacatua galerita</i>	Sulphur-crested Cockatoo	Native	W
Aves	Cacatuidae	<i>Calyptorhynchus funereus</i>	Yellow-tailed Black-Cockatoo	Native	W
Aves	Campephagidae	<i>Coracina novaehollandiae</i>	Black-faced Cuckoo-shrike	Native	W
Aves	Charadriidae	<i>Vanellus miles</i>	Masked Lapwing	Native	W
Aves	Climacteridae	<i>Cormobates leucophaea</i>	White-throated Treecreeper	Native	OW
Aves	Columbidae	<i>Streptopelia chinensis</i>	Spotted Dove	Exotic	O
Aves	Corvidae	<i>Corvus coronoides</i>	Australian Raven	Native	W
Aves	Megapodiidae	<i>Alectura lathami</i>	Australian Brush-turkey	Native	Q
Aves	Meliphagidae	<i>Manorina melanocephala</i>	Noisy Miner	Native	OW
Aves	Meliphagidae	<i>Meliphaga lewinii</i>	Lewin's Honeyeater	Native	OW
Aves	Pardalotidae	<i>Pardalotus punctatus</i>	Spotted Pardalote	Native	W
Aves	Petroicidae	<i>Eopsaltria australis</i>	Eastern Yellow Robin	Native	W
Aves	Psittacidae	<i>Glossopsitta concinna</i>	Musk Lorikeet	Native	W
Aves	Psittacidae	<i>Platycercus elegans</i>	Crimson Rosella	Native	OW
Aves	Psittacidae	<i>Trichoglossus haematodus</i>	Rainbow Lorikeet	Native	W
Aves	Rhipiduridae	<i>Rhipidura albiscapa</i>	Grey Fantail	Native	OW
Mammalia	Canidae	<i>Vulpes vulpes</i>	European Red Fox	Exotic	Q
Mammalia	Felidae	<i>Felis catus</i>	Domestic Cat	Exotic	Q
Mammalia	Macropodidae	<i>Wallabia bicolor</i>	Swamp Wallaby	Native	Q
Mammalia	Miniopteridae	<i>Miniopterus schreibersii oceanensis</i>	Eastern Bentwing Bat	Native	U
Mammalia	Molossidae	<i>Austronomus australis</i>	White-striped freetail Bat	Native	U

Class	Family	Scientific name	Common name	Native/ Exotic	Observation type
Mammalia	Muridae	<i>Rattus rattus</i>	Black Rat	Exotic	Q
Mammalia	Peramelidae	<i>Perameles nasuta</i>	Long-nosed Bandicoot	Native	Q
Mammalia	Phalangeridae	<i>Trichosurus vulpecula</i>	Common Brushtail Possum	Exotic	Q
Mammalia	Pseudocheiridae	<i>Pseudocheirus peregrinus</i>	Common Ringtail Possum	Native	O,Q
Mammalia	Pteropodidae	<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	Native	W
Mammalia	Vespertilionidae	<i>Chalinolobus gouldii</i>	Gould's Wattled Bat	Native	U

Observation type = O (seen), W (heard call), OW (seen and heard), U (ultrasonic recording, Q (camera)

Appendix D: Biodiversity Credit Report

Biodiversity credit report



This report identifies the number and type of biodiversity credits required for a major project.

Date of report: 7/06/2017

Time: 11:29:58AM

Calculator version: v4.0

Major Project details

Proposal ID: 0076/2017/4403MP
Proposal name: Lindfield Learning Village FBA Assessment
Proposal address: 100 Eton Road Lindfield NSW 2070

Proponent name: Department of Education
Proponent address: Level 4, 35 Bridge Street Sydney NSW 2000
Proponent phone:

Assessor name: Lucas McKinnon
Assessor address: 29 Munni Street Newtown NSW 2042
Assessor phone: 0421 603 549
Assessor accreditation: 0076

Summary of ecosystem credits required

Plant Community type	Area (ha)	Credits created
Dwarf Apple - Broad-leaved Scribbly Gum - Sydney Peppermint low open woodland on sandstone ridges with subtle enrichment in northern Sydney	0.22	12.00
Total	0.22	12

Credit profiles

1. Dwarf Apple - Broad-leaved Scribbly Gum - Sydney Peppermint low open woodland on sandstone ridges with subtle enrichment in northern Sydney, (ME67)

Number of ecosystem credits created 12
IBRA sub-region Pittwater (Part B)

Offset options - Plant Community types	Offset options - IBRA sub-regions
Dwarf Apple - Broad-leaved Scribbly Gum - Sydney Peppermint low open woodland on sandstone ridges with subtle enrichment in northern Sydney, (ME67)	Pittwater (Part B) and any IBRA subregion that adjoins the IBRA subregion in which the development occurs