

Figure 17: The extent of native vegetation across the development site and location of sampling quadrats.



Figure 18: Foraging habitat for microbats and *Pteropus poliocephalus* Grey-headed Flying-fox within vegetation zone 1 that will be removed by the proposal is shown hatched.



Figure 19: Hollow-bearing tree locations, representing potential roost habitat for *Myotis macropus* Large-footed Myotis.



Figure 20: The extent of native vegetation impacted by the proposal and requiring offset (red), totalling 0.44 hectares of DSF04 / PCT 1776. Construction footprint shown as red dashed line

APPENDIX 2

PHOTOGRAPHS



Photograph 1: Surrounding bushland: Greendale Park south east of the development site, 20th July 2017.



Photograph 2: Surrounding bushland: south western boundary of Bob Campbell Oval, 17th October 2017.



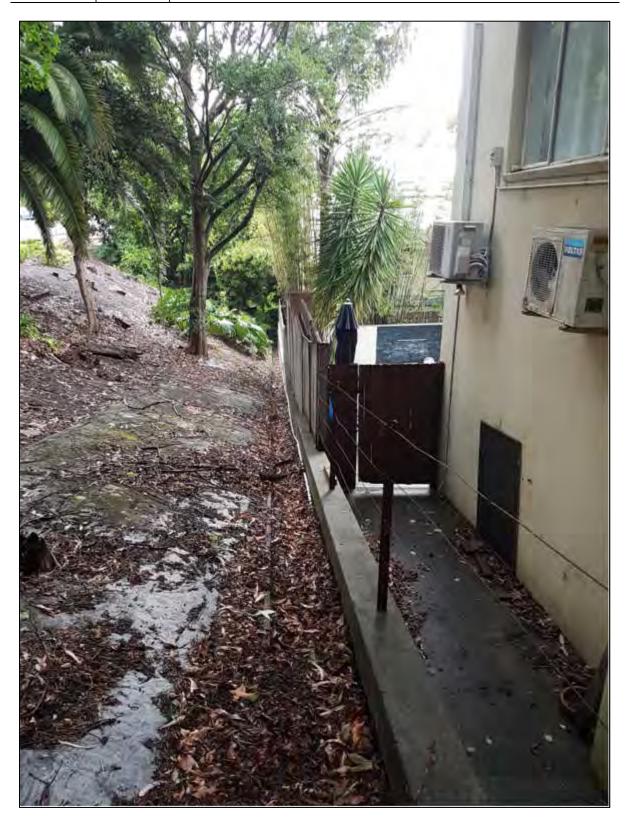
Photograph 3: Surrounding bushland: north eastern boundary of Bob Campbell Oval directly below the development site, 4th December 2017.



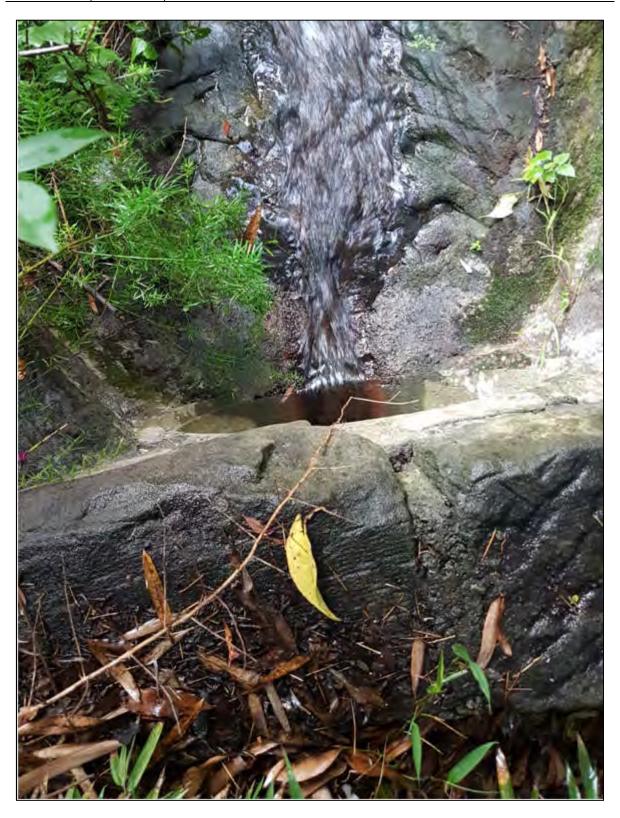
Photograph 4: Surrounding bushland: Along Gore Creek to the south wwest of the development site, 4th December 2017.



Photograph 5: Surrounding bushland: Lane Cove Bushland Park to the north west of the development site, 4th December 2017.



Photograph 6: Upper half of the riparian zone recognised by Council on the site's western boundary.



Photograph 7: Water being delivered from the stormwater pipe in the Council-recognised riparian area. This stormwater outlet is located approximately 15 metres upslope from the site's south western corner.



Photograph 8: Looking upstream into the Council-recognised riparian zone, from Gore Creek. Note the sewer pipe and the sandstone block walls.



Photograph 9: The confluence of Gore Creek with the Lane Cove River.

APPENDIX 3

TABLES

Table 1: Plot field data sheets for VZ 1 (PCT 1776).

EYSTONE			BAM	Site - Fie	ld Si	urvey Fori	n				S	ite sheet no:	
		Lso	rvey Na	ne					Plot	identifier	I	lecorders	
Date:	GPS:	_			11	99 River	OA Pains	marti	V2.1	A	1	A	
21-11-17 lone	Datum	_	RA regio			IBRA	subregion		Phot		2	one ID	
S6 Sasting	Northing	100	mension	15		Mitch	ell landso			ntation of			
egetation Class	6255450	_	Ome 50		24	Scherophy			Poin	K II OM OM	T	Confidence	
lant Communit	y Type (PCT)	17	Time S.	walter free	irac	Role-Go	Dazdino	ad spen fin	out o	n smilely	rd.	Confidence	
SEC / CEEC				Usione sta	67.0	voord Syde	en one	the Central	Low	4	+	Confidence (H) M L	
Rec	ond easting and	1	rom the ple	ot marker. If ag	plica	ble, orient pick	et so that p	erforated rib po	ints alon	g direction o	fmid		
BAM Att	Dimensions (sh	ape) o	t U.04ha ha	ese plot inside	0.1ha	FA plut should	be identifie	d, magnetic beation (woody v	aring tak	en along mad	line.		
(400m)		# 0	d spp	BAM Attr				tems count			Rec	ord number of	
_	Trees	53		DBH DBH	a plot)		Euc*	Non euc	B	follows:	and	ng eucalypt (Euc*) living non-	
	Shrubs Grasses	-1		Large		80+cm	11		N.			dypt (Non Euc) as separately.	
Count of Native richness	etc	2		Euc* &		50-79cm	HEL		I	1 8		*includes all species of Eucalypeus, Corymbia, Angophora, Lophosteman and Syncarpia.	
(composition)	Forns	2		30 - 490		750.000	4011	111	1 + Lo		Lop		
	Other	2		20 - 29cm			444	441	ja	IDEAD .F		Record total number of trees with hollows	
	Sam of c	over ((%)	10 - 190	77		1	# 1			by size class with hollows (including		
Sum of cover of	Trees	10	0.1	5 - 9cm			-		+			d stems/trees). Dead tree/stag	
	Shrubs	4	0	<5cm	_		-		10	latural	000		
plants by growth form group	Grasses		3			s (m) (≥10cm	(m) (≥10cm m in length) 1 5em			egen>		Yes / No	
(Structure)	Forbs		3	1000000			outcrop?					Yes (No)	
	Other		-2	Estimates of	an be	used when the	number of 0.30100.	living tree stem 200.300.	a within	a class is ≥ 1	U, ear	imates samua ara	
High Threat We	ed cover		-3.	East a multi-	- STORES	med tree and	o the largest	living stem is it	ncluded hollow, r	in the county not the count	estin of ho	iate. Hows in that stem	
BAM Attribute	(1v1m plots)		Litter co	100000	_	ire ground o	_	Cryptogra	_		_	ck cover (%)	
Subplot score (COOK TOOK	_		100 95		The least	0 5						
Average of the			qe	-		1			-			-	
tter cover is asses e locations 5, 15,	sed as the averag 25, 35 and 45m a ssors may also re ament scores. The	long the cord to whold	n midline. he cover of potential v	Latter cover in rock, bare gri alue for future	ound vege	ind cryptogra- tation integrity	n soil crust y assessmen	Collection of t	hese dat benchm	m is optional arics, and for	- the	om the plot midli iameter), Within t data do not curre ocing PCF descrip	
Morphological	HENTODE		Landfor		pin	L	andform	upper slop		Microrelie	f	Yes.	
type Lithology	garders Natural fir	die	element Soil surf		_	arinky S	oil	chocoloste		Soll depth		Shallas	
Slope	Grained save	700-4	Aspect	Eas	54-	S	olour ite rainage	None- Counslope East		Distance to nearest wa and type		Con Creek Channel	
Plot disturba	nce	Seve	erity cod	e Age co	ode	Observat	ional evid	lence					
Clearing (Incl. Cultivation (in Soil erosion			3	0		Hanog	ail Tion	illegs ga	oden				
Firewood colle Grazing	ection												
Fire damage Storm damage						- Maria	() . E	E	483	La Ar de	a a al	of delets	
Weediness	2	0		manage	t house	BE GIBLLIETS	requ	THE WAY	PHIS.	of dobris			



		for weeds)	Top 3 native species in each growth form group: Full species name mandatory. All other native and exotic	N, E or	Cover	Abund (stem	Stratum	Sample
#	GF Code	BAM GF code	species: Full species name where practicable. Circle top 3 species in each layer.	HTW	(%)	count)		collect
	S	54	Pittosporim undulation	M	10	4		
			Chrharta salveina	HUE	0.2	10		
	F	PCL	Calium australe	N	0.1	-		
	Cr	GG	Microlaena Stypoidea	N	0.2	30		
	D	Colo	golsmanus aemulus	N	0.1	20		
,	+	Fa	Dichardra repens	M	82	10		
			Avena Autsia	E	3.1	1		
			Acer regundo	HITE	0-1	,20	17	
1	T	TG	Culabyshis resimfera	14	10	1		1
0.			Ligustrum lucidum	HITE	20	No		- 1
ti.			Olea eurgrea subst cupidata	HTE	0-1	3		
2			Hedera helix	HILE	0.1	1		
13			Eriothina x sykesii	MIE	5.1	3		
14			Geranium 10	E	0.1	20		
15			Asparagus nethigicus	HTE	0.1	3		
16	T	Ta	Eucalyptus sahana	N	40	3		
17			Annedera cordifolia	FITE	0-1	3		
18			Arayica sericifolia	HTE	01	1		
19			Сиппатотит стрнага	HIE	0.1	1		1
20			Ochna serrulata	FILE	6.1	2		
21			Photonia sematifolia	E	0:1	1		
22	T	TG	Cipanigosis anarcardoides	N	0.1	1		
23			Oxalis perennans	14	01	4		
24			Tradescaritea fluminensis	HTE	0.1	5		
25			Phoenix canangusis	HILE	0-1	1		
26	P	00	Archortophoenia cunninghamana	M	0-1	3		
27			Celtis sinensis	E	01	la:		
28	T	Ta	Angorhan Planbunda	N	10	1 2		
29			Coteneaster glaucophyllus	HTE	5	1		
38			Stellaria media	E	31	1		
31			Sanchus oleroceus	E	0.1	3		
32	A	oa	Mocrozamia communis	M	0-1	3		
33	T	Ta	Eucalyphus pilularis	N	40	2		
34			0					
35						1		
36								
37					-			
38								
39								
40								
61								
42								1
43								
44								
45								

GF Codes: First letter represents GF code; code in bracket (e.g. (SG)) represents the BAM code for the calculator. Circle (J in Top J of layer.

A: Cycad (OG): C: Cheeopod (SG): D: Other Grass (GG): E: Ferns (EG): F: Forb (FG): G: Tassock Grass (GG): H: Hummock Grass (GG): K: Epiphyte (OG): L: Vine (OG):

M: Malliee True (TG): P: Palm (OG): Q: Tree Fern (OG): R: Resh (GG): S: Shrub (SG): T: Tree (TG): V: Sedge (GG), X: Xanthorrhoea (OG): Y: Malliet Shrub (SG): Z: Heath Shrub (SG)

N. E. HTW: N: native: E: exotic: HTW: high threat weed.

Cover: 0.1, 0.2, 0.3, 1.2, 3, 10, 15, 20, 25, 100% (foliage cover): Note: 0.1% cover represents approximately 63cm x 63cm or a circle about 71cm diameter. 0.1% cover is the lowest allowed - this may be an over estimate of the actual cover. 0.5% cover represents an area of approximately 1.4m x 1.4m, and 1% cover = 2m x 2m, 5% = 4m x 5x, 25% = 100m x 10m.

Abundance: 1, 2, 3,....10, 20, 30,....,100, 200,....1000, grass abundance: count fractional unit, i.e. transper + one plant. Abundance of 200 - 1000 has no effect in BAM calculator. Stratum: T1: Upper (20m+); T2: Upper (15-20m); T3: Trees (10-15m); S1: Small trees (5-10m); S2: Shrubs (s5m); L1: ground (s1m); L2: Lower ground (s0.5m)

Table :2 - Plot field data sheets for VZ 2 (PCT 684).

KEYSTONE		BAM Site - Field Survey Form							
		Survey Name		Plot identifier	Recorders				
Date: 21-11-17	GPS:	areanwich Hospi	V22-A	EA					
Zone 56	Datum 94	IBRA region Sudney Basin	BRA subregion	Photo#	Zone ID				
Easting	Northing	Dimensions	Mitchell landscape: Port Jockson Bosin	Orientation of n point from 0m;					
Vegetation Cla		North Coast Net Sc	lerophyll Forests		Confidence H M L				
Plant Commu	nity Type (PCT)	684 - Blackbuff -nor	Confidence H M (1.)						
EEC / CEEC		NIL	Confidence (H) M L						

Record easing and north from the plot marker. If applicable, orient picket so that perforated rib points along direction of midline.

Dimensions (shape) of 0.04ha base plot inside 0.1ha FA plot should be identified, magnetic bearing taken along midline.

BAM Attri (400m² r		₩ of spp
- 20	Trees	4
	Shrubs	0
Count of Native	Grasses etc	1
(composition)	Forbs	0
Composition	Ferns	1
	Other	0
	Sum of	cover (%)
	Trees	20
Sum of cover of native vascular	Shrubs	0
plants by growth form	Grasses etc	40
(Structure)	Forbs	0
.,	Ferns	l l
	Other	0
ligh Threat Wee	d cover	51-2

		Funct	ion (woody veg	only)			
BAM Attribu (20x50m plo		#Tree st	ems count	Record number of living sucalypt (Euc*)			
DBH		Euc*	Non euc	Hollews	and living one- euralypt (Non Euc)		
Large two for	80+cm	1		H	stems separately.		
trees for Euc* & 50-79cm Non Euc		1			*Includes all species of Eucolyptus, Corymbia, Angophora,		
30 - 49cm		1	V		Lophostemon and Syncarpio.		
20 - 29cm			30		* Record total number		
10 - 19cm			t.		of trees with hollows by size class with		
5 - 9cm					dead stems/trees).		
<5cm					D = Dead tree/stag		
Length of logs (m) (≥10cm				Natural regen>	Yes /(No)		
	ocm in length)		Om	Rocky outcrop?	Yes /(No)		

Counts must apply to each size when the number of living tree stems within the size class is ≤ 10 . Estimates can be used when the number of living tree stems within a class is ≥ 10 . Estimates should draw from the number of series 10, 20, 30... 100, 200, 300.

For a multi-stemmed tree, only the largest living stem is included in the count/estimans.

For hollows, count only the presence of a stem containing hollow, not the count of hollows in that stem.

BAM Attribute (1x1m plots)	Litter cover (%)				Ba	Bare ground cover (%)			Cryptogram cover (%)					Rock cover (%)						
Subplot score (% in each)	5	10	0	15	5	10	15	5	15	10	16	-	-	1 =	-	-	9		-	-
Average of the 5 subplots			7					11												

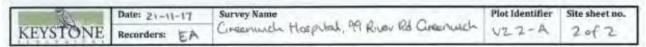
Litter cover is assessed as the average percentage ground cover of litter recorded from five 1m s 1m plots located on afternate sides and 5m from the plot midline at the locations 5, 15, 25, 35 and 45m along the midline, latter cover includes leaves, seeds, twigs, branchlets and branches (less than 10cm in diameter). Within these 1m x 1m plots assessors may also record the cover of rock, bare ground and cryptogram soil crusts. Collection of these data is optional - the data do not currently contribute to assessment scores. They hold potential value for future vegetation integrity assessment attributes and benchmarks, and for enhancing PCT description.

Morphological type	Landform	Landform	Microrelief
Lithology	Soil surface texture	Soil colour	Soil depth
Slope	Aspect	Site drainage	Distance to nearest water and type

Plot disturbance	Severity code	Age code	Observational evidence
Clearing (incl. logging)			
Cultivation (incl. pasture)			
Soil erosion			
Firewood collection			
Grazing			
Fire damage			
Storm damage			
Weediness	2	NR	
Other	5	0	land scaping prominent with few radice offributes

Severity: 0 = no evidence; 1 = light; 2 = moderate; 3 = severe

Age: R = recent (<3yrs); NR = not recent (3-10yrs); 0 = Old (>10yrs)



	blank	for weeds)	Top 3 native species in each growth form group; Full species name mandatory. All other native and exotic	N, E or	Cover	Abund	Change	Sample
#	GF Code	BAM GF code	species: Full species name where practicable. Circle top 3 species in each layer.	HTW	(%)	(stern count)	Stratum	collect
1	E	EG	Nephrologis cordifolia	N	4:	10		
2	-	-	Jacaranda mimosificlia	E		100		
3	- 2		Ochna sevulata	HTE	1	1		
4			Syagrus romanzoffiana	E				
5		-	Acor negundo	HIE	2	5		
ê.	-	-	Aspavagus aethropicus	HITE	02	T		
7	T	TG		N	5	1		
8	T	T.C.	Eucalyphus Siderogylon Eucalyphus pilulans	N	5	2		
9	1	-	Celtis sinensis	E				
10			Triadica selaferos	HTE	8	2		
11	T	Ta	Eucalyptus saligna	N	5	1		
12	T	The	Ficus vibiginosa	N	5	1.1		
13		-	Cenchivus clandestinus (kikingu)	HTE	40	100		
14	D	C.C.	Cynodes dachitan	N	40	100		
15		-	Agapanthus praecoe	E				
16			Editoria profession					
17								
18							7 3	
19								
20								
21								
22								
23				-	-	1		
24				1	-	1		
25				-		1		
26				1		-		
27				1				
28				-		-		
29								
30		-				-		
31				-		_		
32								
32		-				,		
-	-	-		_		-		_
34	-							
35		-				-		
36						-		
37.	-			-		1		
38								
39				-		-		
40								
41								
42				-				
43								
44								
45								

It Codes: First letter represents GF code; code in bracket (e.g. (SG)) represents the BAM code for the calculator. Circle if in Top Tof layer.

Ar Cycad (OG), C: Chenopod (SG); D: Other Grass (GG); E: Ferns (EG), F: Forb (FG); G: Tussock Grass (GG); H: Hummock Grass (GG), K: Epiphyte (OG); L: Vine (OG);

M: Mallee Tree (TG); P: Palm (OG); Q: Tree Fern (OG); E: Rush (GG); S: Shrub (SG); T: Tree (TG); V: Sedge (GG); X: Xanthorrhoea (OG); Y: Mallee Shrub (SG); Z: Heath Shrub (SG)

N, E, HTW: N: native; E: exotic; HTW: high threat weed.

Cover: 0.1, 0.2, 0.3...1, 2, 3...10, 15, 20, 25....100% (foliage cover); Note: II.1% cover represents approximately 63cm x 63cm or a circle about 71cm diameter. 0.1% cover is the lowest allowed - this may be an over estimate of the actual cover. 0.5% cover represents an area of approximately 1.4m x 1.4m, and 1% cover = 2m x 2m, 5% = 4m x 5x, 25% = 10m x 10m.

Abundance: 1, 2, 3, 10, 20, 30, 100, 200, 100, 200, 1000, ... grass abundance: count fractional unit, i.e. runner = one plant. Abundance of 200 - 1000 has no effect in BAM calculator. Stratum: T1: Upper (20m+), T2: Upper (15-20m); T3: Trees (10-15m); S1: Small trees (5-10m); S2: Shrubs (s5m); L1: ground (s1m); L2: Lower ground (s0.5m)

Table 3: Current vegetation integrity scores for vegetation zone 1 on the development site.

				Vegetation	Zone 1				
Plant Co	mmunity	Туре:		nooth-barked Apple slopes around Syc		_		nriched	
Area: 0.4	4ha		Condition	n class: Low – herit	tage garden				
				Composition cor	dition scor	e			
Plot 1 Tree Shrub		Grass	and grass like	Forb Fern		Other	Current composition condition score		
	5	1		2	2	0	2	1'	7.7
				Calculation	results				
Plot 1			Tree	Shrub	Grass an	_	Forb	Fern	Other
Benchma	ark		7	28	9		0	2	_
	Observed mean (x̄)		/	20	9		8	2	5
Observe	d mean (x)	5	1	2		2	0	2
Observe Unweigh composi (UCSi)	ited				-			_	
Unweigh composi	ited tion scor	e	5	1	2	1	2	0	2

			Structure cond	ition score								
Plot 1	Tree	Shrub	Grass and grass like	Forb	Fern	Other	comp	rent osition lition ore				
	100.1	10	0.3	0.3	0	0.2	30	0.1				
	Calculation results											
Plot 1		Tree	Shrub	Grass an	_	Forb	Fern	Other				
Benchm	ark	45	68	30	6	5	1	4				
Observe	ed mean (x̄)	100.1	10	0.	3	0.3	0	0.2				
Unweight score (U	hted structure JSSi)	100	4.1	C)	0.4	0	0.3				
Weighted structure score (WSSi)		28.3	1.7	C	0		0	0				
Dynami	c weighting (wi)	0.28	0.43	0.2	23	0.03	0.01	0.03				

						Ve	egetation Zone 1						
Plant (Community Type:				Smooth-l l Coast.	oarked Ap	ple – Red Bloodwood o	open forest o	n enriched s	andstone slop	pes around Sy	dney and the	
Area: (0.44 hectares			Condi	tion class: Low – heritage garden								
						Zo	ne function data						
Plot	Regenerating	Stem classes					No. of large trees	Hollow- bearing	Litter	Coarse woody	High threat	Current function	
1	stems <5cm DBH	5-9	10-19	20-29	30-49	50-79		trees	cover	debris	weed cover	condition score	
	Present		x x x			8	6	99	1.5	31.3	78.8		
						Ca	lculation results						
Plot 1			generatii ns <5cm I	_	Stem siz	e class	No. of large t	trees	Litter cover	Coarse woody debris	High threa	at weed cover	
Bench	mark		Present		4		3		62	47		-	
Observ	ved mean (x̄)		1		3		8		99	1.5		31.3	
Weigh (WFSi)	ted function score		15		13	.8	35		15	0		-	
Weigh	ting (wi)		0.15		0.1	.5	0.35		0.15	0.2		-	
					Overall	current v	egetation integrity so	ore for VZ 1					
							34.7						

				Vegetation	Zone 2				
Plant Co	mmunity	Type:		ckbutt – Narrow-le nges, northern Syd			shrubby tall o	open fore	st of
Area: 0.8	37		Condition	class: Very low -	landscaped				
				Composition cor	ndition scor	e			
Plot 1	Tree	Shrub	Grass	and grass like	Forb	Fern	Other	comp	rent osition lition ore
	4	0		1	0	1	0	9	.2
				Calculation	results				
Plot 1			Tree	Shrub	Grass an	_	Forb	Fern	Other
Benchm	ark		9	15	6		8	5	13
Observe	d mean (x)	4	0	1		0	1	0
Unweigh composi (UCSi)	ited tion scor	'e	48.6	0	5.	5	0	8.6	0
Weighte score (W	d compo /CSi)	sition	7.8	0	0.	6	0	0.8	0
Dynamic	c weighti	ng (wi)	0.16	0.27	0.1	1	0.14	0.09	0.23

			Structure cond	ition score				
Plot 1	Tree	Shrub	Grass and grass like	Forb	Fern	Other	comp	rent osition lition ore
	20	0	40	0	1	0	12	2.3
			Calculation	results				
Plot 1		Tree	Shrub	Grass an lik	· ·	Forb	Fern	Other
Benchm	ark	73	52	8	}	4	15	20
Observe	ed mean (x̄)	20	0	40	0	0	1	0
Unweight score (U	nted structure (SSi)	18	0	10	0	0	0.6	0
Weighte score (V	ed structure VSSi)	7.6	0	4.	7	0	0.1	0
Dynami	c weighting (wi)	0.42	0.3	0.0)5	0.02	0.09	0.12

						Ve	getation Zone 2					
Plant (Community Type:					Narrow-	leaved White Mahogar	ny shrubby ta	ll open fore	st of coastal r	anges, northe	rn Sydney
Area: (0.87 hectares				ioregion.	Very low	- landscaped					
							ne function data					
Dlas	Regenerating			Stem clas	ses		No. of large trees	Hollow-	Litter	Coarse	High threat	Current function
Plot 1	stems <5cm DBH	5-9	10-19	20-29	30-49	50-79	(>50cm DBHOB)	bearing trees	cover	woody debris	weed cover	condition score
	Absent		X	Х	Х	X	1	1	7	0	51.2	24.9
	Absent x x x x x 1 1 / 0 51.2 24.9 Calculation results											
Plot 1			generatii ns <5cm I	_	Stem size	e class	No. of large t	rees	Litter cover	Coarse woody debris	High threa	nt weed cover
Bench	mark		Present		4		3		66	14		-
Observ	ved mean (x̄)		0		4		1		7	0		51.2
Weigh (WFSi)	ted function score		0		15		9.7		0.3	0		-
Weigh	eighting (wi) 0.15 0.15 0.35 0.15 0.2 -											
	Overall current vegetation integrity score for VZ 1											
							14.1					

Table 4: Weather data during active fauna survey period September 2017 to January 2018.

Sydney, New South Wales September 2017 Daily Weather Observations Most observations from Observatory Hill, but some from Fort Denison and Sydney Airport.



Australian Government

Bureau of Meteorology

		Tem	ps		- Contract		Max	wind g	ust		and a	9a	m		Carlo Dall			3p	m		
ate	Day	Min	Max	Rain	Evap	Sun	Dirn	Spd	Time	Temp	RH	Cld	Dirn	Spd	MSLP	Temp	RH	Cld	Dirn	Spd	MSL
		°C	°C	mm	mm	hours		km/h	local	°C	%	eighths		km/h	hPa	°C	%	eighths		km/h	hPa
1	Fr	8.2	19.2	0	3.4	9.8	W	33	06:37	12.2	52	2	W	20	1026.3	17.7	44	1	ESE	19	102
2	Sa	7.8	19.4	0	4.8	10.8	W	24	05:47	11.8	69	1	W	15	1021.4	17.5	49	2	E	19	101
3	Su	10.0	27.2	0	5.0	7.3	NW	48	17:04	15.3	55	6	WSW	6	1013.8	26.6	16	6	N	19	100
4	Mo	12.0	22.2	0	7.6	10.7	WNW	56	15:00	16.0	35	0	W	7	1009.7	21.7	22	1	WNW	37	100
5	Tu	11.4	18.7	0	10.4	10.8	W	61	15:52	14.7	31	2	WNW	19	1011.6	18.2	22	2	WNW	33	100
6	We	11.5	19.9	0	8.0	10.6	WNW	59	03:11	14.6	31	1	W	31	1013.9	19.0	21	1	W	31	101
7	Th	10.0	21.9	0	7.0	10.6	W	50	15:39	15.7	38	1	W	20	1019.1	21.5	21	1	W	24	101
8	Fr	11.1	20.4	0	5.6	10.8	W	65	10:01	16.0	39	1	WSW	31	1017.6	19.9	22	2	WSW	30	101
9	Sa	9.6	19.4	0	8.0	10.8	WSW	44	03:00	13.1	37	1	W	24	1022.6	17.7	31	1	SE	20	102
10	Su	8.0	19.1	0	5.0	10.8	W	24	05:41	13.5	52	1	WNW	13	1023.3	17.3	51	1	ESE	17	102
11	Mo	8.7	22.7	0	3.8	10.1	NE	24	15:13	14.4	60	1	WNW	13	1020.4	22.5	29	3	NE	13	101
12	Tu	11.3	27.2	0	5.8	2.3	E	26	14:21	18.2	43	7	W	11	1015.7	23.4	34	6	SE	6	101
13	We	18.2	33.8	0	6.2	9.6	NNW	70	14:24	24.9	19	1	NW	20	1005.4	32.5	10	3	NW	31	99
14	Th	12.0	17.3	0.2	13.0	10.5	WSW	72	10:41	13.8	37	2	WSW	28	1010.7	16.4	26	2	W	43	101
15	Fr	10.5	22.8	0	7.8	10.6	W	52	10:59	16.6	37	1	W	24	1019.0	22.2	24	1	WSW	19	101
16	Sa	12.5	24.2	0	7.0	6.4	SSW	56	15:37	17.3	43	7	NNW	15	1018.1	21.3	22	6	WSW	26	101
17	Su	8.1	18.6	0	4.6	10.8	ESE	28	12:50	13.6	48	1	W	17	1027.8	16.4	37	0	E	15	102
18	Mo	8.2	21.0	0	5.6	10.7	NE	39	14:17	14.0	55	1	W	7	1024.0	20.2	55	0	NE	20	101
19	Tu	14.0	25.2	0	6.4	10.8	SSW	54	16:51	20.4	30	2	WSW	19	1014.5	23.1	16	1	W	28	101
20	We	10.7	19.0	0	9.2	7.7	WSW	33	01:03	14.6	44	3	WNW	17	1021.2	17.7	56	1	E	19	101
21	Th	10.4	21.3	0	3.8	10.1	NE	30	18:30	15.6	65	0	W	13	1016.8	21.2	49	0	E	17	101
22	Fr	12.8	27.7	0	7.2	10.5	NNE	35	18:47	20.1	35	1	W	13	1014.7	25.8	26	5	ESE	11	101
23	Sa	15.5	32.2	0	8.6	5.7	NNE	50	15:58	23.0	25	7	ESE	4	1009.3	29.1	25	6	NE	24	100
24	Su	23.0	29.2	0	12.0	6.5	W	54	16:15	27.1	20	6	WSW	20	1002.7	27.8	15	5	W	20	100
25	Mo	16.0	26.7	0	10.8	10.8	WNW	57	15:02	22.3	21	0	W	11	1008.0	23.3	19	5	WNW	33	100
26	Tu	12.3	22.2	0	9.6	11.0	WSW	41	08:34	19.5	29	1	SW	20	1016.7	19.0	47	2	ESE	24	101
27	We	15.4	22.7	0	6.6	8.2	ENE	50	14:23	18.1	58	7	E	11	1017.7	21.1	62	4	NE	26	101
28	Th	18.0	25.7	0	6.2	3.8	WNW	59	12:42	22.7	47	5	WNW	13	1008.9	24.1	26	5	WNW	30	100
29	Fr	13.0	26.9	0	6.8	11.1	W	39	19:43	20.4	36	1	W	17	1015.9	26.8	20	1	W	2	101
30	Sa	16.3	24.1	0	9.2	0.7	WSW	59	15:25	18.8	30	6	W	35	1013.2	23.5	15	7	WSW	24	101
atistic	s for Se	ptember																			
	Mean	12.2	23.3		7.2	9.0	1,		11	17.3	40	2		17	1016.0	21.8	30	2	- <u> </u>	22	101
	Lowest	7.8	17.3		3.4	0.7		1		11.8	19	0	ESE	4	1002.7	16.4	10	0	W	2	99
	lighest	23.0	33.8	0.2	13.0	11.1	WSW	72		27.1	69	7	W	35	1027.8	32.5	62	7	W	43	102
	Total			0.2	215.0	270.9															

Temperature, humidity, pressure and rainfall observations are from Sydney (Observatory Hill) (station 066062). Cloud, evaporation and sunshine observations are from Sydney Airport AMO (station 066037). Wind observations are from Fort Denison (station 066022)

Sydney Airport is about 10 km to the south of Observatory Hill.

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Sydney, New South Wales October 2017 Daily Weather Observations Most observations from Observatory Hill, but some from Fort Denison and Sydney Airport.

Australian Government Bureau of Meteorology

- 0		Ten	nps	D-1-	-0.00		Max	wind g	ust	S		9a	m					3p	m		
Date	Day	Min	Max	Rain	Evap	Sun	Dirn	Spd	Time	Temp	RH	Cld	Dirn	Spd	MSLP	Temp	RH	Cld	Dirn	Spd	MSLP
		°C	°C	mm	mm	hours		km/h	local	°C	%	eighths		km/h	hPa	°C	%	eighths	-	km/h	hPa
- 1	Su	11.2	23.1	0	6.0	10.6	W	31	09:30	15.4	65	1	W	11	1022.0	19.3	36	1	E	22	1019
2	Mo	12.0	22.9	0	6.2	10.1	NE	44	17:23	16.7	55	2	WNW	11	1024.2	21.3	60	3	E	24	1021
3	Tu	16.7	22.1	0	7.0	5.4	NNE	39	17:15	18.9	69	6	W	9	1023.2	20.1	65	7	ENE	22	1020
4	We	15.6	23.8	0	3.6	8.7	SE	30	08:55	20.4	72	2	S	17	1021.8	22.1	58	7	ESE	20	1019
5	Th	16.5	23.4	0	5.0	9.6	NNE	41	17:41	19.5	73	4	W	9	1018.8	22.6	64	1	ENE	17	1013
6	Fr	18.0	22.1	0	6.6	4.7	SSW	39	08:01	18.9	66	6	SSW	24	1013.5	20.3	46	3	SE	19	1015
7	Sa	13.7	22.0	0	6.2	8.7	SSW	43	00:29	16.2	52	6	SW	11	1023.4	21.1	46	3	SSE	20	1021
8	Su	13.0	21.4	0	4.8	2.3	ENE	31	12:56	16.6	70	7	WNW	13	1020.7	19.6	64	8	NE	17	1016
9	Mo	16.6	30.0		2.6	8.3	S	48	20:01	20.1	74	1	W	9	1011.2	27.5	45	2	NE	20	1006
10	Tu	16.1	21.3	0	8.0	4.7	ENE	39	19:26	19.0	62	7	ESE	9	1018.1	20.5	59	5	E	19	1016
11	We	18.0	23.2	0	5.6	3.8	NNE	48	02:44	19.3	86	7	ENE	13	1017.4	22.6	75	6	NE	17	1012
12	Th	19.2	29.6		3.6	9.6	SW	46	13:23	23.2	61	6	E	2	1008.8	27.3	30	1	SSE	24	1010
13	Fr	14.7	23.2	0	7.2	10.5	NE	46	16:06	18.4	69	7	WNW	9	1019.0	22.7	55	1	ENE	26	1015
14	Sa	17.1	22.3	0	7.6	0.0	S	54	03:11	18.7	63	8	SE	28	1023.2	18.2	61	7	SSE	26	1023
15	Su	16.0	22.4	0	3.8	2.4	ESE	28	02:22	22.3	52	5	SE	17	1024.9	20.1	58	7	ESE	17	1024
16	Mo	15.9	23.3	0	5.0	10.4	E	30	15:57	22.4	55	5	E	13	1028.0	22.3	50	- 1	Е	20	1026
17	Tu	16.9	23.5	0	7.6	9.9	ENE	39	14:28	21.2	57	6	NNE	22	1028.3	22.9	47	3	E	28	1026
18	We	18.8	23.2	0	9.0	10.4	NNE	50	11:33	20.9	64	5	ENE	20	1028.9	22.5	56	5	NE	28	1026
19	Th	17.1	25.3	0	10.0	11.4	NNE	52	18:44	22.1	52	0	N	17	1025.2	24.6	47	2	NE	26	1020
20	Fr	19.0	19.6	7.8	9.2	0.0	S	56	11:41	19.6	87	8	NNE	2	1019.6	15.3	85	8	S	22	1020
21	Sa	13.0	20.0	16.4	4.4	11.3	SSW	50	11:28	16.8	52	1	SSW	24	1021.9	18.9	53	6	SSE	28	1019
22	Su	13.4	21.7	0.2	4.8	5.5	ESE	30	12:43	16.0	75	6	WNW	9	1015.3	18.7	60	6	ESE	17	1013
23	Mo	12.7	23.0	3.4	3.6	12.1	S	31	09:21	18.0	60	3	W	7	1018.1	22.1	43	1	ESE	20	101
24	Tu	13.9	24.3	0	6.8	10.5	NE	39	16:34	19.9	57	1	W	4	1019.0	22.6	55	3	NE	26	101
25	We	18.0	26.9	0	8.0	5.0	S	59	19:09	21.0	67	8	SSE	9	1013.9	23.3	56	5	Е	19	1008
26	Th	17.2	24.6	0.4	7.0	6.5	wsw	63	22:59	19.7	73	7	ssw	9	1007.6	22.6	63	7	SSE	24	100
27	Fr	14.8	24.2	34.2	7.2	3.9	wsw	61	23:19	18.1	85	6	SSW	28	1008.6	22.3	65	7	SSW	20	100
28	Sa	17.5	25.1	0.2	3.2	7.7	ENE	35	13:31	21.6	66	3	SE	6	1011.5	22.3	65	7	ENE	20	100
29	Su	20.2	29.6	0.2	4.6	10.6	NNE	39	18:17	24.4	49	2	W	11	1008.6	27.7	35	3	NE	19	100
30	Mo	20.3	35.4	0.2	11.4	9.3	SSW	69	16:31	28.5	37	1	NNW	22	1003.0	34.9	13	5	NW	37	99
31	Tu	13.0	20.5	0	12.0	10.1	SSE	57	16:25	15.8	43	7	sw	20	1014.7	19.7	36	1	S	31	101
	s for Oc				12.0	10.1	002	51	10.20	.0.0		- 41	5.7	20	10.1.1.1			- 1	9		, , ,
	Mean	16.0	24.0		6.4	7.5				19.7	63	4		13	1018.1	22.2	53	4		22	101
	Lowest	11.2	19.6		2.6	0.0				15.4	37	0	#	2	1003.0	15.3	13	1	#	17	998
-	Highest	20.3	35.4	34.2	12.0	12.1	SSW	69		28.5	87	8	#	28	1028.9	34.9	85	8	NW	37	1026
	Total			62.8	197.6	234.0					-								- 2.27	-	

Temperature, humidity, pressure and rainfall observations are from Sydney (Observatory Hill) (station 066062). Cloud, evaporation and sunshine observations are from Sydney Airport AMO (station 066037). Wind observations are from Fort Denison (station 066022)

Sydney Airport is about 10 km to the south of Observatory Hill.

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Sydney, New South Wales November 2017 Daily Weather Observations Most observations from Observatory Hill, but some from Fort Denison and Sydney Airport.



Australian Government

Bureau of Meteorology

		Ten	ips	B	-0.004		Max	wind g	ust			9a	m					3p	m		
Date	Day	Min	Max	Rain	Evap	Sun	Dim	Spd	Time	Temp	RH	Cld	Dirn	Spd	MSLP	Temp	RH	Cld	Dirn	Spd	MSLP
		°C	°C	mm	mm	hours	6	km/h	local	°C	%	eighths		km/h	hPa	°C	%	eighths		km/h	hPa
1	We	13.0	22.2	0	9.6	4.2	SSW	54	00:11	15.4	39	7	WSW	17	1013.8	21.0	32	7	ESE	20	1010
2	Th	15.3	22.6	0	5.6	9.9	ESE	31	13:17	20.1	56	3	S	11	1014.2	21.8	46	1	ESE	20	1012
3	Fr	16.9	26.9	0	6.6	5.9	SSW	57	19:58	20.6	58	7	NNW	11	1012.0	25.7	48	6	E	20	1008
4	Sa	16.2	17.1	1.6	7.4	0.0	SSE	39	09:14	17.0	73	7	SSE	15	1017.6	15.8	78	8	SSE	19	1018
5	Su	14.1	19.5	31.8	2.6	0.0	ENE	39	22:44	14.9	85	8	ESE	24	1022.6	17.7	59	8	E	15	1020
6	Mo	14.8	26.3	4.4	1.8	5.7	SSW	67	17:52	19.4	81	8	N	20	1008.7	23.6	57	4	WSW	28	1002
7	Tu	13.8	21.8	5.6	8.8	11.3	SSE	54	16:09	18.9	40	2	SSW	20	1015.8	20.0	40	1	SSE	35	1016
8	We	14.6	21.7	0	9.6	10.0	SSE	44	07:32	16.8	54	7	S	20	1025.7	20.5	44	1	SE	22	1025
9	Th	12.3	22.1	0	6.8	11.6	E	28	12:25	17.9	52	2	w	11	1027.9	21.2	50	1	E	20	1025
10	Fr	14.2	23.4	0	6.8	11.6	E	26	15:37	19.2	59	4	WNW	11	1028.8	22.7	50	3	ENE	20	1026
11	Sa	14.7	23.7	0	7.4	8.6	ENE	33	14:59	19.9	58	3	WNW	9	1027.8	20.9	56	5	ENE	22	1024
12	Su	17.1	22.5	0	7.4	10.7	E	31	17:40	19.7	49	6	ENE	9	1026.4	21.7	47	1	E	22	1023
13	Mo	17.5	22.3	0	6.4	9.1	E	33	14:14	19.1	48	4	ESE	11	1024.8	21.2	42	2	ESE	24	1022
14	Tu	16.0	22.9	0	7.6	8.9	ENE	37	16:56	20.0	53	5	NNE	4	1023.7	22.3	46	2	E	24	1020
15	We	16.0	24.4	0	7.6	12.0	ENE	54	16:36	22.6	53	1	E	13	1020.3	23.4	57	1	NE	24	1017
16	Th	18.6	24.4	0	11.0	7.7	ENE	46	10:17	23.2	49	3	NE	26	1016.8	22.7	58	7	NE	24	1014
17	Fr	19.0	24.0	0.4	8.2	6.5	NE	50	12:54	22.4	61	7	NE	24	1018.0	22.0	56	7	NE	28	1016
18	Sa	19.1	22.6	0.2	8.4	1.1	ENE	44	09:35	19.9	73	7	ENE	24	1019.7	20.8	66	7	ENE	30	1019
19	Su	17.4	23.6	2.4	5.6	9.7	ESE	35	15:16	22.3	52	6	ESE	13	1023.7	23.0	51	4	ESE	20	1023
20	Mo	17.5	22.9	2.8	0.0	1.8	ESE	35	06:25	18.4	80	7	WNW	10	1025.9	22.4	56	7	E	19	1024
21	Tu	17.6	23.6	1.6	11.2	5.3	E	33	16:18	21.5	44	7	ESE	9	1024.7	23.2	49	2	ESE	20	1022
22	We	17.4	24.4	7.8	4.6	7.4	E	31	17:04	18.3	84	7	SSE	9	1021.3	23.6	54	3	E	19	1018
23	Th	17.3	24.7	0.0	5.6	11.1	E	39	14:31	23.3	56	2	ESE	9	1017.9	23.9	56	1	E	30	1014
24	Fr	18.2	25.9	0	10.8	9.3	NE		13:35	23.4	59	4	E	9	1017.2	24.5	54	3	NE	26	1015
	Sa	18.9	26.4	0	8.0	12.6	ENE	41	15:46	23.4	59	4	NE	17	1017.2	24.3	62	3	E	22	
25			1000	2.6	7.5	15.0		35	1 1 1 1 1 1 1 1			-		17		2000		,		10.00	1016
26	Su	19.3	26.8	0	8.4	10.1	NE	48	14:38	24.4	65	5	E	13	1017.7	24.8	64	2	NE	28	1015
27	Mo	20.6	25.1	0	8.6	1.9	ENE	39	16:41	23.7	66	8	NE	13	1015.9	24.5	65		NE	19	1014
28	Tu	19.3	27.7	0	5.8	11.1	SE	35	12:04	25.1	64	4	Е	11	1018.8	26.9	59	5	ESE	24	1018
29	We	20.6	26.4	0.8	Joseph	7.7	E	26	12:48	22.8	78	7	ESE	15	1020.4	25.8	64	7	ESE	19	1018
30	Th	20.2	26.7	1.8	10.8	10.9	ENE	48	17:04	24.4	66	6	E	13	1018.4	25.9	62	2	ENE	28	1015
tatistic	s for No																				
	Mean	16.9	23.8		7.5	7.8				20.6	60	5		13	1020.2	22.6	54	3		23	1018
	Lowest	12.3	17.1		1.8	0.0		1.1		14.9	39	1	#	4	1008.7	15.8	32	. 1	E	15	1002
	Highest	20.6	27.7	31.8	11.2	12.6	SSW	67		25.1	85	8	NE	26	1028.8	26.9	78	8	SSE	35	1026
	Total			61.2	209.0	233.7															

Temperature, humidity, pressure and rainfall observations are from Sydney (Observatory Hill) (station 066062). Cloud, evaporation and sunshine observations are from Sydney Airport AMO (station 066037). Wind observations are from Fort Denison (station 066022)

Sydney Airport is about 10 km to the south of Observatory Hill.

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Sydney, New South Wales **December 2017 Daily Weather Observations**



Most observations from Observatory Hill, but some from Fort Denison and Sydney Airport.

		Ten	nps	-	Monage !		Max	wind g	ust			9a	ım					3	om		
Date	Day	Min	Max	Rain	Evap	Sun	Dirn	Spd	Time	Temp	RH	Cld	Dirn	Spd	MSLP	Temp	RH	Cld	Dirn	Spd	MSLP
		°C	°C	mm	mm	hours		km/h	local	°C	%	eighths		km/h	hPa	°C	%	eighths		km/h	hPa
1	Fr	20.1	27.5	0.2	8.6	11.3	NE	59	15:41	25.4	62	1	E	17	1015.4	26.6	57	5	NE	31	1011
2	Sa	19.7	26.8	0	11.0	1.3	WNW	72	14:22	22.9	72	7	NE	17	1006.4	24.6	62	8	NE	17	1003
3	Su	16.9	29.2	10.8	0.6	13.5	E	37	14:15	22.1	45	1	W	20	1006.2	23.7	50	3	E	24	1005
4	Mo	16.1	18.6	3.0	10.0	0.4	SSW	52	08:40	16.8	79	7	SSW	24	1011.4	17.1	81	8	SSW	22	1010
5	Tu	16.0	25.3	7.6	0.6	5.9	SSW	63	15:35	18.4	71	7	SSW	19	1007.6	23.8	54	2	SSW	33	1004
6	We	18.2	26.0	0.2	10.2	5.7	SW	44	13:11	19.8	59	7	W	17	1003.2	19.3	68	7	SW	13	1001
7	Th	17.5	31.3	5.8	6.4	12.6	NE	43	16:39	25.2	39	1	WNW	13	1006.4	28.3	32	5	ENE	11	1004
8	Fr	21.4	27.7	0	12.8	8.9	SE	50	15:37	22.8	44	5	NW	6	1009.1	23.7	52	6	SSE	31	1010
9	Sa	18.1	24.1	0	8.0	7.9	SSE	35	00:37	21.4	52	7	SE	13	1019.9	22.6	46	4	E	19	1018
10	Su	17.3	24.8	0	7.4	12.7	ENE	39	16:48	23.0	54	3	ESE	9	1023.0	24.2	50	1	ENE	26	1020
11	Mo	18.0	26.5	0	10.4	13.1	ENE	43	13:53	24.0	49	1	NE	6	1020.5	25.8	47	2	ENE	33	1017
12	Tu	20.3	27.0	0	10.2	12.2	ENE	41	15:34	25.2	56	5	Е	19	1019.3	25.2	57	1	Е	31	1015
13	We	19.3	28.0	0	10.0	13.0	NNE	56	15:49	24.7	59	1	ESE	7	1014.4	28.0	52	- 1	ENE	13	1010
14	Th	20.9	30.8	0	9.2	11.6	NNE	59	17:55	27.3	54	4	E	11	1008.3	29.9	43	2	E	19	1005
15	Fr	20.7	26.6	0.2	13.4	0.1	SSW	54	05:06	21.9	73	8	SSW	24	1013.1	26.3	61	7	S	7	1012
16	Sa	21.4	28.5	1.4	2.6	11.6	NE	48	17:11	25.3	67	3	ENE	7	1014.2	25.9	61	2	ENE	22	101
17	Su	21.9	26.8	0.6	10.0	1.1	SE	39	02:41	23.1	82	7	SE	15	1015.7	24.5	71	7	SSE	20	1015
18	Mo	21.1	27.6	0.2	3.2	5.8	ENE	33	13:44	24.8	69	4	NW	7	1013.4	25.6	64	7	ENE	22	1009
19	Tu	22.3	35.3	0	6.4	5.2	NNE	57	16:10	25.4	69	7	E	6	1009.4	30.1	50	7	NNE	35	1003
20	We	25.2	38.3	0	11.4	8.6	SSW	78	15:16	35.3	32	5	ESE	9	1005.0	27.1	60	6	SSE	26	1006
21	Th	21.2	24.5	3.0	11.00	1.1	ESE	39	09:02	23.7	62	7	SE	17	1017.4	22.9	64	7	ESE	26	1017
22	Fr	21.2	26.1	0.2	13.6	7.9	ENE	35	15:40	23.9	63	7	E	15	1016.4	25.0	59	2	E	20	1014
23	Sa	20.1	28.3	0	7.6	12.3	NE	41	17:44	24.8	61	1	ESE	9	1013.0	26.7	56	2	ENE	17	1008
24	Su	21.0	37.7	0	10.0	7.6	SSE	50	19:55	28.3	53	3	W	9	1007.2	28.4	52	7	SSE	19	1005
25	Mo	18.5	21.7	1.2	10.0	0.2	SSE	46	00:37	20.0	64	8	SSE	19	1015.5	21.0	62	8	SSE	26	1016
26	Tu	19.5	23.8	0	5.2	0.0	ENE	43	19:29	21.3	54	7	ESE	20	1019.4	22.6	54	7	E	17	1018
27	We	18.8	26.2	3.0	4.6	10.9	E	43	13:04	23.7	60	6	ENE	19	1019.0	24.9	62	6	E	28	1017
28	Th	19.2	27.4	0.0	9.8	10.8	ENE	44	14:20	25.0	59	5	E	13	1017.1	26.2	57	7	ENE	26	1013
29	Fr	21.3	28.8	0	8.2	8.4	NE	33	17:10	25.6	72	5	E	11	1017.1	28.3	58	6	ENE	19	1008
100		- T		-			100000	44		1	100	8	2000000		2000			0	777	1 1	
30	Sa	22.4	36.2 25.3	3.8 6.0	9.2	8.0 7.1	WNW	44	13:44	23.6	82 76	8	WSW	13	1005.0 1012.6	34.8	27 61	7	ENE	20 31	100
atistics				6.0	9.2	1.1				21.1	76	- 1	E	13	1012.6	24.6	01	- 1	ENE	31	1008
	Mean	19.9	27.8		8.3	7.6				23.7	61	4	1	13	1012.8	25.4	55	4		22	1010
	owest	16.0	18.6		0.6	0.0				16.8	32	1	WSW	4	1003.2	17.1	27	1	S	7	100
_	ighest	25.2	38.3	10.8	13.6	13.5	SSW	78		35.3	82	8	SSW	24	1023.0	34.8	81	8	NNE	35	1020
	Total			47.2	249.0	236.8	-			1 1 1 1 1 1											1969
	100000		1	.000				THE T PLAT	0000000	loud evapor					100	JDW2124.2	04740 0		10.04.0447		

Temperature, humidity, pressure and rainfall observations are from Sydney (Observatory Hill) (station 066062). Cloud, evaporation and sunshine observations are from Sydney Airport AMO (station 066037). Wind observations are from Fort Denison (station 066022)

Sydney Airport is about 10 km to the south of Observatory Hill.

IDCJDW2124.201712 Prepared at 16:01 GMT on 16 Feb 2018 Copyright © 2018 Bureau of Meteorology

Sydney, New South Wales January 2018 Daily Weather Observations



Australian Government **Bureau of Meteorology**

Most observations from Observatory Hill, but some from Fort Denison and Sydney Airport.

		Ten	nps	2.4		200	Max	wind g	ust			9a	m					3p	m		
Date	Day	Min	Max	Rain	Evap	Sun	Dirn	Spd	Time	Temp	RH	Cld	Dirn	Spd	MSLP	Temp	RH	Cld	Dirn	Spd	MSLP
		°C	°C	mm	mm	hours		km/h	local	°C	%	eighths		km/h	hPa	°C	%	eighths		km/h	hPa
1	Mo	20.5	29.8	0.6	7.8	12.3				25.2	64	1			1005.5	27.4	58	2			1005
2	Tu	20.5	27.0	0	7.4	7.2				23.4	68	5			1007.3	25.3	63	4			1003
3	We	19.9	25.1	1.4	5.8	6.0				22.7	64	6			1010.0	23.9	57	5			1012
4	Th	18.1	24.0	0.6	7.0	6.3				19.4	80	7			1017.2	22.2	56	4			1015
5	Fr	17.3	26.1	0.8	5.8	12.7				22.6	61	1			1017.5	24.3	56	2			1015
6	Sa	20.3	29.8	0	9.6	13.0				24.8	65	1			1017.6	27.5	57	2			1013
7	Su	22.4	43.4	0	11.0	11.1				29.8	50	0			1012.4	31.1	44	3			1010
8	Mo	22.0	31.9	2.4	12.4	4.2				25.8	61	7			1014.5	29.9	43	5	E	19	1011.
9	Tu	22.1	30.2	18.6	14.2	1.4	1			22.6	85	7	N	17	1014.5	28.1	58	7	N	15	1011.
10	We	18.6	24.9	5.8	8.0	4.1	SE	44	23:42	20.7	65	8	SE	17	1019.2	23.5	52	7	SE	19	1018.
11	Th	19.3	24.0	0	6.8	0.2				21.9	64	7	ENE	7	1018.7	23.2	64	8	ENE	19	1016.
12	Fr	21.6	27.2	2.8	4.2	6.6	NE	44	16:50	23.7	78	7	N	11	1013.6	26.0	70	1	ENE	24	1009.
13	Sa	23.2	34.3	0.2	6.8	4.7	SW	69	11:37	25.9	72	7	WSW	15	1001.6	31.1	36	5	SW	30	1000
14	Su	14.8	24.5	1.8	8.6	10.3	S	72	16:09	17.7	54	5	S	24	1007.1	23.4	35	2	SSE	41	1010
15	Mo	16.3	26.5	0.2	11.0	7.8	SSE	61	14:51	18.8	50	2	S	20	1015.0	25.3	41	3	SSE	30	1013
16	Tu	18.3	23.5	0	10.0	7.8				19.8	53	7	S	24	1020.0	22.1	40	7	S	31	1019
17	We	17.3	25.8	0	7.2	12.6	SSW	46	00:13	21.3	47	1	SW	22	1019.6	24.8	36	1	S	20	1018.
18	Th	15.7	26.2	0	9.0	12.7	E	35	15:40	20.0	58	3	W	9	1020.0	23.9	46	1	E	20	1016.
19	Fr	16.9	28.3	0	8.0	13.3	E	31	14:17	22.8	54	0	W	6	1015.9	27.8	36	0	E	20	1013.
20	Sa	17.4	30.4	0	11.0	13.1	E	37	14:59	23.3	56	0	WNW	9	1015.6	26.1	49	2	E	22	1013.
21	Su	19.5	27.3	0	12.0	12.3	ENE	52	16:55	24.7	63	1	N	13	1014.2	26.4	57	1	ENE	28	1011.
22	Mo	21.5	29.6	0	9.2	8.2				24.9	66	4	W	4	1009.9	28.6	51	7	E	20	1008.
23	Tu	22.7	26.8	0	9.8	1.7	NNE	43	17:34	24.9	71	7	NNE	13	1011.5	23.9	76	7	NE	15	1011.
24	We	21.8	28.0	0.4	4.2	8.3	NE	46	20:37	25.2	69	3	ESE	4	1011.8	27.7	63	6	ENE	22	1009
25	Th	22.5	27.1	0	10.2	1.6	NNE	37	00:11	23.7	78	7	E	7	1012.4	25.2	76	7	ENE	24	1010.
26	Fr	23.5	27.4	0	3.6	1.1	ENE	39	14:49	23.8	85	8	ENE	7	1012.8	26.1	74	7	E	22	1010.
27	Sa	23.8	27.9	0	5.6	9.1	ENE	41	16:49	24.8	82	7	ENE	24	1013.6	26.5	72	7	E	26	1011.
28	Su	24.0	27.0	0	8.0	5.6	ENE	43	16:34	25.0	80	7	ENE	22	1014.9	25.8	71	6	ENE	30	1013
29	Mo	23.3	28.6	0	7.0	11.2	ENE	41	15:54	26.6	66	5	E	11	1014.4	28.1	58	2	E	28	1011.
30	Tu	21.4	28.7	0	11.0	11.1	NE	48	15:32	26.1	63	1	N	11	1008.2	27.7	58	6	ENE	22	1003
31	We	18.0	22.0	2.2	10.8	0.0	S	59	21:55	19.0	73	8	SSW	24	1008.2	21.2	54	8	S	28	1008
tatistics	for Jai	uary 20	18								-		-	-						-	
	Mean	20.1	27.8		8.5	7.7				23.3	65	4		13	1013.4	25.9	55	4		23	1011
-	Lowest	14.8	22.0	-	3.6	0.0				17.7	47	0	#	4	1001.6	21.2	35	0	#	15	1000
ł	lighest	24.0	43.4	18.6	14.2	13.3	S	72		29.8	85	8	#	24	1020.0	31.1	76	8	SSE	41	1019.
	Total			37.8	263.0	237.6															

Temperature, humidity, pressure and rainfall observations are from Sydney (Observatory Hill) {station 066062}. Cloud, evaporation and sunshine observations are from Sydney Airport AMO {station 066037}. Wind observations are from Fort Denison (station 066022)

Sydney Airport is about 10 km to the south of Observatory Hill.

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Table 5: Flora species recorded on the development site and immediately adjacent vegetation during survey.

* = Exotic; HTW = High Threat Weeds; WONS = Weeds of National Significance. Provenance: AN = Native, but not locally native, E = Exotic, LN = Locally Native, Affinities to vegetation communities per OEH (2013): PD = positive diagnostic, U = uninformative, C = Constant.

Facility	Colon Life a Name	Common Name			w	here recorded			D		Affinity	
Family	Scientific Name	Common Name	RF02 Gallery Rainforest	DSF06 Foreshore Forest	Gore Creek Channel	Weedy boundary/batter	PCT 1776 Historic gardens	PCT 684 Hospital grounds	- Provenance	DSF04	DSF06	RF02
Altingiaceae	Liquidambar styraciflua*	Liquidambar					Х	Х	Е			
Apocynaceae	Araujia sericifera* HTW	Moth Vine				х			Е			
Apocynaceae	Parsonsia straminea	Common Silkpod			Х				LN			
Arecaceae	Archontophoenix cunninghamiana	Bangalow Palm			Х			х	LN			
Arecaceae	Phoenix canariensis* HTW	Canary Island Date Palm				Х	Х		Е			
Arecaceae	Syagrus romanzoffianum*	Cocos Palm						х	Е			
Arecaceae	Livistona chinensis*	Chinese Fan Palm						х	Е			
Asparagaceae	Asparagus aethiopicus* HTW, WONS	Ground Asparagus	X	Х					Е			
Aspleniaceae	Asplenium australasicum	Birds Nest Fern	х	Х					LN			U
Asteraceae	Bidens pilosa*	Cobbler's Pegs				х			Е			
Asteraceae	Cirsium vulgare*	Spear Thistle				х			Е			
Asteraceae	Conyza sp.*	-				Х			Е			
Bignoniaceae	Jacaranda mimosifolia*	Jacaranda					х	х	Е			
Casuarinaceae	Allocasuarina littoralis	Black She-oak			Х				LN	PD	PD	
Casuarinaceae	Allocasuarina torulosa	Forest Oak					х		LN	U		U
Commelinaceae	Tradescantia fluminensis* HTW	Trad			Х				Е			
Convolvulaceae	Ipomoea cairica* HTW	Blue Morning Glory				х			Е			
Cunoniaceae	Ceratopetalum apetalum	Coachwood		х					LN			PD
Cupressaceae	Cupressus torulosa*	Bhutan Cypress						х	Е			
Cupressaceae	Cupressocyparis leylandii*	Leyland Cypress						х	Е			
Cupressaceae	Thuja orientalis*	Bookleaf Conifer					x		Е			
Cupressaceae	Cupressus cashmeriana*	Kashmir Cypress						х	Е			
Cupressaceae	Cedrus atlantica*	Atlantic Cedar						х	Е			
Cyatheaceae	Cyathea sp.	Tree Fern			х				LN			
Elaeocarpaceae	Elaeocarpus reticulatus	Blueberry Ash			х				LN	PD	PD	U
Euphorbiaceae	Glochidion ferdinandi var. ferdinandi	Cheese Tree				X	x		LN	PD	PD	U
Euphorbiaceae	Homalanthus populifolius	Bleeding Heart				X			LN			
Euphorbiaceae	Triadica sebifera* HTW	Chinese Tallowwood						х	Е			
Fabaceae	Erythrina x sykesii*	Coral Tree				X	Х	х	Е			
Fabaceae	Glycine clandestina	Twining Glycine	Х						LN	U	U	U
Fabaceae	Robinia pseudoacacia* HTW	Golden Rain Tree					Х		Е			
Ginkgoaceae	Ginkgo biloba*	Maidenhair Tree						х	Е			
Lauraceae	Cinnamomum camphora* HTW	Camphor Laurel					X	х	Е			
Lomandraceae	Lomandra longifolia	Spiky-headed Mat-rush	Х	Х					LN	PD	PD	С
Lythraceae	Lagerstroemia indica*	Crepe Myrtle					X		Е			1]

- "					w	here recorded					Affinity	
Family	Scientific Name	Common Name	RF02 Gallery Rainforest	DSF06 Foreshore Forest	Gore Creek Channel	Weedy boundary/batter	PCT 1776 Historic gardens	PCT 684 Hospital grounds	- Provenance	DSF04	DSF06	RF02
Magnoliaceae	Magnolia grandiflora*	Southern Magnolia						x	Е			
Meliaceae	Melia azedarach	White Cedar						x	LN			
Mimosaceae	Acacia falcata	Hickory Wattle					X		LN			
Moraceae	Ficus coronata	Sandpaper Fig	х						LN			
Moraceae	Ficus rubiginosa	Port Jackson Fig		Х		х	х	х	LN		PD	
Musaceae	Musa acuminata*	Banana	х	Х					Е			
Myrsinaceae	Myrsine variabilis	Muttonwood	х	х					LN		U	
Myrtaceae	Acmena smithii	Lilly Pilly						х	LN			U
Myrtaceae	Angophora bakeri	Narrow-leaved Apple					х		LN			
Myrtaceae	Angophora costata	Smooth-barked Apple					X	х	LN	PD	PD	
Myrtaceae	Callistemon salignus	Willow Bottlebrush						Х	LN			
Myrtaceae	Corymbia citriodora	Lemon-scented Gum					X		AN			
Myrtaceae	Eucalyptus botryoides	Bangalay					X		LN		U	
Myrtaceae	Eucalyptus pilularis	Blackbutt	х	Х	Х		X	х	LN	PD	U	U
Myrtaceae	Eucalyptus resinifera	Red Mahogany					X		LN	PD	PD	
Myrtaceae	Eucalyptus saligna	Sydney Blue Gum				х	X	х	LN			
Myrtaceae	Eucalyptus saligna x botryoides	Blue Gum x Bangalay					X		LN			
Myrtaceae	Eucalyptus scoparia	Wallangarra White Gum					X		AN			
Myrtaceae	Eucalyptus sideroxylon	Mugga Ironbark						х	LN			
Myrtaceae	Melaleuca styphelioides	Prickly-leaved Tea Tree				х			LN			
Ochnaceae	Ochna serrulata* HTW	Mickey Mouse Plant	х	х					Е			
Oleaceae	Ligustrum lucidum* HTW	Large-leaved Privet				x			Е			
Oleaceae	Ligustrum sinense* HTW	Small-leaved Privet	Х	х	Х				Е			
Oleaceae	Notelaea longifolia	Mock Olive	X	x					LN	PD	PD	U
Oleaceae	Olea europea* HTW	African Olive						х	Е			
Oleaceae	Ligustrum lucidum* HTW	Large-leaved Privet					х	х	Е			
Oxalidaceae	Oxalis perennans	-							LN			
Oxalidaceae	Oxalis sp.	Oxalis			Х				LN			
Pinaceae	Cedrus deodara*	Deodar					х	х	Е			
Pinaceae	Pinus radiata* HTW	Radiata Pine					х		Е			
Pinaceae	Pinus patula* HTW	Patula Pine						x	Е			
Pittosporaceae	Hymenosporum flavum	Native Frangipani						х	LN			
Pittosporaceae	Pittosporum undulatum	Sweet Pittosporum	Х	Х	Х	X	Х	x	LN	PD	PD	PD
Platanaceae	Platanus digitata*	Plane Tree					X		Е			
Poaceae	Microlaena stipoides var. stipoides	Weeping Rice Grass			Х				LN	PD	PD	
Poaceae	Phyllostachys aurea* HTW	Fishpole Bamboo			1	X			E			
Polypodiaceae	Platycerium superbum	Staghorn	Х	х					LN	 		
Proteaceae	Banksia integrifolia subsp. integrifolia	Coast Banksia			Х				LN	U	PD	
Rosaceae	Pyrus calleryana*	Callery Pear						X	E			

Family	Scientific Name	Common Name			w	here recorded			Provonance		Affinity	
ranny	Scientific Name	Common Name	RF02 Gallery Rainforest	DSF06 Foreshore Forest	Gore Creek Channel	Weedy boundary/batter	PCT 1776 Historic gardens	PCT 684 Hospital grounds	Provenance	DSF04	DSF06	RF02
Salicaceae	Salix matsudana* HTW	Tortured Willow				х			Е			
Salicaceae	Populus deltoides*	Eastern Cottonwood						X	E			
Sapindaceae	Acer negundo*	Box Elder			X			X	E			
Sapindaceae	Cupaniopsis anachardiodes	Tuckeroo					X		E			
Smilacaceae	Smilax glyciphylla	Sweet Sarsaparilla		Х					LN		PD	U
Solanaceae	Solanum mauritianum*	Wild Tobacco Bush				х			E			
Theaceae	Camellia japonica*	Camellia					x		E			
Ulmaceae	Celtis sinensis*	Japanese Hackberry						Х	E			
Urticaceae	Parietaria judaica*	Pellitory				х			E			
Verbeanaceae	Lantana camara* HTW, WONS	Lantana		Х	_	Х			Е			
Vitaceae	Cissus hypoglauca	Water Vine	Х	Х	Х				LN	U	U	

Table 6: Fauna species recorded during survey. Threatened species in bold type.

Fauna Group	Scientific Name	Common Name	Type of Record
Amphibian	Litoria dentata	Bleating Tree Frog	Audio recording – distant call, probably from riparian habitats along Gore Creek.
Reptile	Lampropholis delicata	Garden Skink	Observed – commonly observed scuttling through leaf litter across the site.
Reptile	Physignathus lesueurii	Eastern water dragon	Observed – nearby along the channelised part of Gore Creek.
Bird	Vanellus miles	Masked Lapwing	Audio recording – heard regularly, best habitats probably in Bob Campbell Oval.
Bird	Cacatua galerita	Sulphur-crested Cockatoo	Observed – regularly observed in canopy trees of the development site.
Bird	Alisterus scapularis	Australian King Parrot	Observed –observed feeding on the open lawns of the development site.
Bird	Trichoglossus haematodus	Rainbow Lorikeet	Observed - regularly observed in canopy trees of the development site.
Bird	Eudynamys scolopacea	Eastern Koel	Audio recording – seasonal visitor common to Sydney gardens in spring-summer.
Bird	Scythrops novaehollandiae	Channel-billed Cuckoo	Audio recording – seasonal visitor common to Sydney gardens in spring-summer.
Bird	Podargus strigoides	Tawny Frogmouth	Observed – family group of three observed in a canopy tree in historic curtilage.
Bird	Dacelo novaeguineae	Laughing Kookaburra	Observed – observed nesting in aerial termite nest in historic curtilage.
Bird	Psophodes olivaceus	Eastern Whipbird	Heard – called from dense weedy vegetation along western boundary.
Bird	Anthochaera carunculata	Red Wattlebird	Audio recording – honeyeater regularly recorded in urban gardens.
Bird	Manorina melanocephala	Noisy Miner	Observed - aggressive small honeyeater that lives in large family groups.
Bird	Acridotheres tristis*	Common Myna	Audio recording -exotic bird that alienate hollows for native species.
Bird	Oriolus sagittatus	Olive-backed Oriole	Heard – probably feeding on fruits of native fig trees.
Bird	Grallina cyanoleuca	Australian Magpie-Lark	Heard – common urban species.
Bird	Cracticus nigrogularis	Pied Butcherbird	Observed –foraging in the deep leaf litter of the historic curtilage.
Bird	Cracticus tibicen	Australian Magpie	Observed – foraging in the lawns of the gardens.
Bird	Strepera graculina	Pied Currawong	Observed – commonly observed in the canopy.
Bird	Corvus coronoides	Australian Raven	Heard – commonly heard flying over during survey.
Mammal	Pseudocheirus peregrinus	Common Ringtail Possum	Observed – emerging from a hollow-bearing tree in the historic curtilage.
Mammal	Trichosurus vulpecula	Common Brushtail Possum	Observed – 2 dead in the grounds (cause of death unknown) and 1 live emerging from the same hollow-bearing tree (but a different hollow) as the Ringtail Possum.
Mammal	Pteropus poliocephalus	Grey-Headed Flying-fox	Audio recording and observed – chattering recorded all night on each night of recording, probably feeding on the fruit of a fig that was near the recorder. Also observed feeding on the flowers of Sydney Blue Gums in the historic curtilage.
Mammal	Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	Call recorded – identification at probable level of certainty. Three short foraging calls recorded at $3:13$ a.m. on $21^{\rm st}$ November. The timing indicates it is not roosting on site and the few calls indicate a relatively low level of foraging activity in the historic curtilage at that time.
Mammal	Mormopterus sp.	Freetail-bat	Call recorded – identification at possible level of certainty.
Mammal	Chalinolobus gouldii	Gould's Wattled Bat	Call recorded definite – identification at definite level of certainty. Many foraging calls were recorded throughout the survey period. A common bat that roosts in hollow-bearing trees or sometimes ceilings or basements of old buildings.
Mammal	Chalinolobus dwyeri	Large-eared Pied Bat	Call recorded – identification at probable level of certainty. A short series of calls were recorded on two occasions – at 11.09 p.m. on 16th November and again at 3.40 a.m. on 21st November 2017. This species roosts by day and rests at night in sandstone overhangs and forages near its roost sites. The sandstone escarpment below the development site probably provide roosting sites and the historic curtilage probably occurs within its foraging range.
Mammal	Canis familiaris*	Dog	Audio recording – regular stationary barking, so assumed to be fenced in neighbouring properties.

Table 7: Predicted threatened species (ecosystem credit species), their predicted occurrence and their sensitivity to gain.

Species	Status BC Act (2016) Statu EPB Act (199		Habitat description	Habitat constraints	Geographic restrictions	Vegetation zone	Confirmed predicted species	Reason	Sensitivity to potential gain
Calyptorhynchus lathami Glossy Black-Cockatoo V (foraging)		-	Occurs in open forest and woodlands along the coast and the Great Dividing Range. <i>Allocasuarina littoralis</i> and <i>Allocasuarina torulosa</i> important food sources. Dependant on large hollow-bearing			VZ_1 (PCT 1776) VZ_2 (PCT 684)	Yes	Suitable potential foraging habitat marginally available on site.	High
			trees in eucalypts for nesting.			1/7 4 (DCT 4776)		No suitable potential habitat on site.	
Dasyurus maculatus Spotted-tailed Quoll	V	E	Occurs in a number of forest habitats but requires large areas of relatively intact forest			VZ_1 (PCT 1776) VZ_2 (PCT 684)	No	This species relies on large areas of well-connected habitat. The highly urbanised nature of the site and surrounding lands, and the absence of terrestrial shelter sites and poor quality foraging habitats available on site is not favoured by this species.	High
Lathamus discolor Swift Parrot (Foraging)	E	CE	Occurs on mainland between March and October where eucalypts are flowering profusely or where there are abundant lerp infestations.			VZ_1 (PCT 1776) VZ_2 (PCT 684)	No	This species occurs on mainland Australia during the winter months and relies on the presence of winter flowering trees. The site does not provide an abundance of such suitable foraging habitats.	Moderate
Miniopterus australis Little Bentwing-bat (Foraging)	V	-	Roosts in caves and forages beneath tree canopies.			VZ_1 (PCT 1776) VZ_2 (PCT 684)	Yes	Suitable potential habitat on site	High
Miniopterus schreibersii oceanensis Eastern Bentwing-bat (Foraging)	v	-	Roosts in caves and forages above tree canopies			VZ_1 (PCT 1776) VZ_2 (PCT 684)	Yes	Suitable potential habitat on site	High
Mormopterus norfolkensis Eastern Freetail-bat	V	-	Occur in dry sclerophyll forest and woodland, roost in hollows and man-made structures.			VZ_1 (PCT 1776) VZ_2 (PCT 684)	Yes	Suitable potential habitat on site	High
Pandion cristatus Eastern Osprey (Foraging)	V	-	Favours coastal areas, especially the mouths of large rivers, lagoons and lakes.			PCT 1776	No	This species is a fishing hawk and forages over waterways. The site does not provide such suitable foraging resources.	Moderate
Phascolarctos cinereus			Occurs where suitable food trees present,			VZ_1 (PCT 1776)		No preferred foraging tree species occur on site.	1
Koala (Foraging)	V	V	generally on rich open valleys.			VZ_2 (PCT 684)	No	Records from this species from within 10 kilometres of the site are either historic or mistaken data entries.	High
Pteropus poliocephalus	***	**	Foraging habitat in flowering eucalypts,			VZ_1 (PCT 1776)	.,,		771 1
Grey-headed Flying-fox (Foraging)	V	V	particularly winter-flowering species; camps in dense wet forest or rainforest gullies.			VZ_2 (PCT 684)	Yes	Suitable potential habitat on site	High
			Inhabits dry open forest and woodland, particularly Box-Ironbark woodland, and riparian forests of River Sheoak.			VZ_1 (PCT 1776)		This species rarely visits the Sydney area and usually	
Anthochaera phrygia Regent Honeyeater (Foraging)	CE CE Occasionally non-broading flocks forage in	CE Occasionally non-breeding flocks forage in Swamp Mahogany and Spotted Gum forests on central and north coast and rarely on the south		VZ_2 (PCT 684)	No	forages on flowering Spotted Gums and Swamp Mahogany. There are no such foraging habitats on or near the site.	High		
Glossopsitta pusilla	v		Mostly in dry open eucalypt forests and woodlands. Feeds on tree nectar and pollen, particularly profusely-flowering eucalypts, but			VZ_1 (PCT 1776)	Yes	Suitable potential habitat on site	High
Little Lorikeet	v	_	also melaleucas and mistletoes and mistletoe fruit. Nomadic, movements probably related to food availability.			VZ_2 (PCT 684)	162	Suitable potential nabitat on Site	111211
Petroica boodang Scarlet Robin	V	-	Occurs in open forests and woodlands. During winter, will visit more open habitats such as grasslands, farmland and urban parks and gardens but abundant logs and coarse woody			PCT 1776	No	This species requires abundant logs and coarse woody debris for perching and foraging. Although they occasionally are found in open farmland and parks, the lack of structural components across the site make the	Moderate

Species	Status BC Act (2016)	Status EPBC Act (1999)	Habitat description	Habitat description Habitat constraints Geographic restrictions Vegetation zone Confirmed predicted species		Reason	Sensitivity to potential gain		
			debris are important structural components of its habitat.					habitats unideal.	
Haliaeetus leucogaster White-bellied Sea-Eagle (Foraging)	V	-	Most commonly seen foraging over water bodies or near coastal waters; will occasionally forage over open country for carrion. Highly mobile and travels long distances. Nests and roosts high in trees in well-timbered country.			PCT 1776	No	Suitable potential nesting habitat on site. This species forages over large waterbodies and perches in areas where view of prey is unobstructed. Although the site is within relatively close proximity to suitable waterbodies, it does not provide suitable foraging habitat.	High

Table 8: Detailed list of Candidate threatened species (species credit species) and presence status on site as determined by targeted survey, indicating also where presence was assumed and/or where presence was determined by expert report.

Species	Status BC Act Status EPBC		Confirmed candidate	Sensitivity to potential	Species		Optimal survey period						iod	Time surveyed			Vegetation	Area of suitable	
Species	(2016)	Act (1999)	species	gain	- nrecence -		F	i N	Ť	A			J	A			D	zone	vegetation
Ancistrachne maidenii	V	-	No	High															
Anthochaera phrygia Regent Honeyeater (Breeding)	CE	CE	No	High															
Caladenia tessellata Thick Lip Spider Orchid	Е	V	No	Moderate															
Callistemon linearifolius Netted Bottle Brush	V	-	No	High															
Calyptorhynchus lathami Glossy Black-Cockatoo (Breeding)	V	-	No	High															
Chalinolobus dwyeri Large-eared Pied Bat	v	V	Yes	Very High	Yes (surveyed)													VZ_1 (PCT 1776)	0.44ha
Cryptostylis hunteriana Leafless Tongue Orchid	v	V	No	High															
Darwinia peduncularis	V	-	No	Moderate															
Haliaeetus leucogaster White-bellied Sea-Eagle (Breeding)	V	-	No	High															
Hibbertia puberula	Е	-	No	High															
Hibbertia spanantha Julian's Hibbertia	CE	CE	No	N/A															
Lathamus discolor Swift Parrot (Breeding)	Е	CE	No	Moderate															
Litoria aurea Green and Golden Bell Frog	Е	V	No	High															
Litoria brevipalmata Green-thighed Frog	V	-	No	Moderate															
Melaleuca groveana Grove's Paperbark	V	-	No	High															

		Status			Survey period															
Species	Status BC Act	EPBC Act	Confirmed candidate species	Sensitivity to potential	Species presence			Op		al : eri		ve	y		s		me eye	d	Vegetation zone	Area of suitable
	(2016)	(1999)		gain	presence	J	F	N	1	A	M	J	J	A	S	o	N	D		vegetation
Miniopterus australis Little Bentwing-bat (Breeding)	V	-	No	Very High																
Miniopterus orianae oceanensis Eastern Bentwing-bat (Breeding)	V	-	No	Very High																
Mixophyes iteratus Giant Barred Frog	Е	Е	No	Moderate																
Myotis macropus Southern Myotis	v	-	Yes	High	No (surveyed)														PCT 1776_Low	0.61ha
Pandion cristatus Eastern Osprey (Breeding)	V	-	No	Moderate																
Petaurus norfolcensis Squirrel Glider	V	-	No	High																
Phascolarctos cinereus Koala (Breeding)	V	V	No	High																
Pimelea curviflora var. curviflora	V	V	No	High																
Pteropus poliocephalus Grey-headed Flying-fox (Breeding)	V	V	No	High																
Tetratheca glandulosa	V	-	No	High																

Table 9: Species credit species recorded on site and their habitat features associated with it, and its abundance on site as per Section 6.4.1.34 of the BAM (2017).

Chalinolobus dwyeri Large-eared Pied Bat												
Biodiversity risk	Very High		Biodiversity risk v	veighting 3								
Habitat feature	On site	Area (ha)	Abundance (%)	Notes								
Caves, cliffs and/or escarpments	No	NA	NA	Suitable habitat features occur below the escarpment above Gore Creek.								
Disused and/or mine shafts	No	NA	NA	Not Applicable								
Rocky outcropping with cracks and crevices	Yes	0.03ha	Approximately 1% of the total site area	The extent of this habitat on site is very small and is made up of low stacked rocks, likely to have been artificially formed. The areas where this habitat feature occurs is in low, open and well-lit areas likely deterring use of habitat. Low rocky areas on the eastern side of the site are not considered to provide important habitat for this species.								
Well-timbered areas with gullies	Neighbouring the western boundary of the site along Gore Creek	0.10 hectares on site, along southwest boundary	3% of the total site area	The extent of suitable gullied areas will not be impacted by the proposal.								
Fertile 'valley' or 'plain' on site	No	NA	NA	NA								

Table 10: Measures to be implemented before, during and after construction to avoid and minimise the impacts of the project, including action, outcome, timing and responsibility.

				-			
				ng and Timing o			
Area	Management activity	Action	Outcome	Before Construction	During Construction	After Construction	Responsibility
	Fencing	Erect exclusion fencing and gates.	Prevent accidental incursion into protected vegetation.	✓	✓		Contractor
All Areas	Erosion and sedimentation controls	Install erosion and sedimentation controls on the development site.	Prevent downslope sedimentation	✓	✓		Contractor
All Areas	N . P	Install nest boxes according to species requirements (e.g. clusters of bat boxes).	Provide replacement habitat for hollow-bearing trees to be felled	✓			Project Ecologist
	Nest Boxes	Monitoring of Nest boxes	Provide monitoring on the condition and success of installed nest boxes			✓	Bush regenerator Maintenance staff
		General tree removal under arborist supervision.	Trees felled without damage to retained vegetation	✓	✓		Arborist Contractor
	APZ Management	Hollow tree removal under ecological supervision.	Trees felled without trauma to resident fauna.	✓	✓		Project Ecologist Contractor
		Understorey across the site is to be managed as an Inner Protection Zone (IPA).	Acceptable bushfire hazard.		✓	✓	Landscape Architect Bushfire Consultant Maintenance Staff
Weed infested slope	Primary weeding	If batter to be maintained, intense weed removal along weedy slope. Protective material (e.g., jute matting) to be used to Weeds controlled.					Landscape Architect Maintenance Staff
	Secondary weeding	Follow up weeding as required.	Weeds controlled.		✓	✓	Landscape Architect Maintenance Staff
	Planting	Dense plantings of species appropriate to vegetation type and of low fire hazard per Landscape Plan.	✓	✓	✓	Landscape Architect Maintenance Staff	
	Maintenance	Watering and weeding as required per Landscape Plan.	Slope stabilised and vegetated with native plants of low fire risk.		✓	✓	Maintenance Staff
	Fencing	Erect protective fencing around trees to be retained under Arborist supervision.	Trees and vegetation protected from construction activities.	✓	✓		Contractor
	Tree removal	General tree removal under arborist supervision.	Trees felled without damage to retained vegetation	✓	✓		Arborist Contractor
PCT 684 Landscaped gardens (native/exotic)	Tree removar	Hollow tree removal under ecological supervision.	ee removal under ecological supervision. Trees felled without trauma to resident fauna.				Project Ecologist Contractor
	Planting	Enrichment planting – particularly of understorey.	Diverse and structurally intact vegetation reinstated with aesthetically-pleasing gardens absent of environmental weeds.	✓	✓	✓	Landscape Architect Maintenance staff
	Maintenance	Watering and weeding as required per Landscape Plan.	Diverse and structurally intact vegetation reinstated.			✓	Landscape Architect Maintenance staff
	Fencing	Erect protective fencing around trees to be retained under Arborist supervision.	Trees and vegetation protected from construction activities.	✓	✓		Contractor
PCT 1776 Coastal Enriched	Targeted weeding (if required)	Bush regeneration methods to be employed to control weeds.	Weeds controlled.	✓	✓	✓	
Sandstone Dry Forest	Follow up weeding	Follow up weeding as required.	Weeds controlled.			√	
	Maintenance	Watering and weeding as required per Landscape Plan.	Diverse and structurally intact vegetation reinstated.			✓	Landscape Architect Maintenance Staff
	Fencing	Erect protective fencing.	Trees and vegetation protected from construction activities.	✓	✓		Contractor
PCT 1778 Coastal Sandstone	Primary weeding	Bush regeneration methods employed to control weeds.	Weeds controlled.	✓	✓		Bush Regenerator (in consultation with Council) Maintenance Staff
Foreshores Forest	Secondary weeding	Secondary weeding Follow up weeding as required. Weeds controlled.				√	Bush Regenerator (in consultation with Council) Maintenance Staff
	Maintenance	Watering and weeding as required per Landscape Plan.	Diverse and structurally intact vegetation reinstated.		√	√	Bush Regenerator (in consultation with Council) Maintenance Staff

	MEASURES TO AVOID AND MINIMISE IMPACTS												
				Sequenci	ng and Timing o								
Area	Management activity	Action	Outcome	Before	During	After	Responsibility						
				Construction	Construction	Construction							
	Fencing	Erect protective fencing.	Trees and vegetation protected from construction activities.	✓	✓		Contractor						
PCT 1828 Coastal Sandstone	Primary weeding	Bush regeneration methods employed to control weeds.	Weeds controlled.	✓	✓		Bush Regenerator (in consultation with Council) Maintenance Staff						
Gallery Rainforest	Secondary weeding	Follow up weeding as required.	Weeds controlled.		✓	✓	Bush Regenerator (in consultation with Council) Maintenance Staff						
	Maintenance	Watering and weeding as required per Landscape Plan.	Diverse and structurally intact vegetation reinstated.		√	✓	Bush Regenerator (in consultation with Council) Maintenance Staff						