

# Bunbury Outer Ring Road Southern Section Vegetation and Flora Study (BORR IPT 2019a)

- Part 10 of 12

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<i>Bromus diandrus</i>	*															1					
<i>Burchardia congesta</i>		1	1		1	1			1							1		1	1	1	
<i>Caladenia flava</i> subsp. <i>flava</i>		1	1			1										1				1	
<i>Callitriche stagnalis</i>	*																				
<i>Carex divisa</i>	*								1												
<i>Cassytha</i> sp.																					
<i>Chamaescilla corymbosa</i>		1					1						1								
<i>Conostylis aculeata</i>																					1
<i>Conostylis aculeata</i> subsp. <i>preissii</i>		1	1		1	1						1	1	1	1	1	1	1	1	1	1
<i>Conostylis juncea</i>							1														
<i>Conyza bonariensis</i>	*			1																	
<i>Corymbia calophylla</i>			1						1			1		1	1	1	1	1	1	1	1
<i>Cotula coronopifolia</i>	*			1					1												
<i>Cotula turbinata</i>	*			1				1	1												
<i>Crassula colorata</i> var. <i>colorata</i>																1					
<i>Crassula natans</i> var. <i>minus</i>	*			1												1					
<i>Cryptostylis ovata</i> (leaf only)			1																		
<i>Cyathochaeta avenacea</i>												1									
<i>Cynogeton lineare</i>																					
<i>Cynodon dactylon</i>	*									1											
<i>Cyperus tenellus</i>	*											1									
<i>Dasyogon bromeliifolius</i>			1						1					1							
<i>Daucus glochidiatus</i>														1					1		
<i>Daviesia physodes</i>			1																		
<i>Desmocladus fascicularis</i>		1	1		1	1			1			1	1	1		1		1	1	1	1
<i>Desmocladus flexuosa</i>												1								1	
<i>Dianella revoluta</i>							1					1	1				1	1	1		
<i>Dichopogon capillipes</i>		2			1	1	1					1				1		1	1	2	1

<i>Disa bracteata</i>	*										1					1		1			
<i>Drosera erythrorhiza</i>		1																			
<i>Drosera glanduligera</i>											1										
<i>Drosera</i> sp. climbing (nf)								1						1							
<i>Drosera stolonifera</i>						1						1				1				1	
<i>Ehrharta calycina</i>	*				1	1	1	1				1	1	1	1	1	1	1	1	1	1
<i>Ehrharta longiflora</i>	*	1		1	1			1													
<i>Eriochilus dilatatus</i> (leaf only)																				1	
<i>Eryngium pinnatifidum</i>							1														
<i>Eucalyptus marginata</i> subsp. <i>marginata</i>		1	1		1								1								1
<i>Eucalyptus rudis</i>				1																	
<i>Euphorbia peplus</i>	*							1													
<i>Ficinia nodosa</i>				1																	
<i>Geranium molle</i>	*			1																	
<i>Gladiolus caryophyllaceus</i>														1						1	
<i>Gompholobium polymorphum</i>			1																		
<i>Gompholobium tomentosum</i>		1	1		1	1														1	1
<i>Hardenbergia comptoniana</i>		1	1		1	1	1					1	1	1	1	1					1
<i>Hibbertia cuneiformis</i>								1					1	1		1	1				
<i>Hibbertia hypericoides</i>																					1
<i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>		1	1		1	1	1		1			1	1	1	1	1	1	1	1	1	1
<i>Hibbertia racemosa</i>							1									1					1
<i>Hibbertia vaginata</i>								1													
<i>Holcus lanatus</i>	*								1												
<i>Hordeum leporinum</i>	*	1																			
<i>Hovea trisperma</i>					1				1												
<i>Hyalosperma cotula</i>					1	1															
<i>Hybanthus calycinus</i>					1	1	1														

<i>Hypocalymma robustum</i>			1																	1	
<i>Hypochaeris glabra</i>	*		1	1	1	1		1		1	1	1	1		1	1		1	1		1
<i>Hypochaeris radicata</i>	*	1		1																	
<i>Hypolaena exsulca</i>		1	1						1												1
<i>Isolepis cernua</i> var. <i>setiformis</i>										1											
<i>Ixia</i> sp.	*													1	1	1	1	1			
<i>Jacksonia furcellata</i>														1					1		1
<i>Jacksonia horrida</i>								1													
<i>Juncus pallidus</i>									1												
<i>Kennedia prostrata</i>					1				1					1		1	1	1			1
<i>Kunzea glabrescens</i>									1		2							1			
<i>Lagenophora huegelii</i>		1	1		1	1	1					1									1
<i>Lemna disperma</i>																					
<i>Lepidosperma longitudinale</i>				1																	
<i>Lepidosperma pubisquameum</i>		1	1		1	1	1		1			1		1	1	1			1		1
<i>Lepidosperma</i> sp. (nf)																					1
<i>Leptocarpus kraussii</i>																					
<i>Leucopogon propinquus</i>		1			1	1	1					1	1	1	1		1		1		
<i>Levenhookia pusilla</i>		1			1	1	1												1		
<i>Lobelia heterophylla</i>							1														
<i>Lolium rigidum</i>	*							1		1											
<i>Lomandra ?odora</i>																					1
<i>Lomandra caespitosa</i>					1	1															1
<i>Lomandra hermaphrodita</i>		1												1		2					
<i>Lomandra odora</i>							1						1			1					
<i>Lomandra purpurea</i>		1	1											1							
<i>Lomandra sericea</i>																					1
<i>Lomandra</i> sp.			1		1																
<i>Lotus subbiflorus</i>	*			1						1	1					1					

<i>Lyginia barbata</i>									1											
<i>Lyperanthus serratus</i>														1					1	
<i>Lysimachia arvensis</i>	*					1	1					1	1							
<i>Macrozamia riedlei</i>			1			1	1	1				1		1	1	1		1	1	1
<i>Melaleuca preissiana</i>				1							1									
<i>Melaleuca raphiophylla</i>											1									
<i>Melaleuca thymoides</i>										1										
<i>Mentha pulegium</i>	*			1																
<i>Microtis media</i> subsp. <i>media</i>				1							1			1	1			1		1
<i>Microtis</i> sp. nf tall (45 cm)												1								
<i>Moraea flaccida</i>																1				
<i>Nuytsia floribunda</i>																				1
<i>Opercularia apiciflora</i>				1																1
<i>Opercularia hispidula</i>				1								1								
<i>Opercularia vaginata</i>								1												
<i>Ornithopus compressus</i>											1								1	
<i>Orthrosanthus laxus</i> var. <i>laxus</i>														1			1	1	1	
<i>Oxalis pes-caprae</i>	*							1				1	1	1	1	1	1	1		
<i>Patersonia occidentalis</i>				1		1						1				1		1		1
<i>Persoonia longifolia</i>														1						
<i>Petrophile linearis</i>				1								1			1					1
<i>Petrorhagia dubia</i>	*					1	1	1					1							
<i>Philothea spicata</i>				1											1					
<i>Phlebocarya ciliata</i>				1	1		1		1			1		1	1			1	1	1
<i>Phyllanthus calycinus</i>				1			1		1											1
<i>Phytolacca octandra</i>	*										1									
<i>Pimelea rosea</i> subsp. <i>rosea</i>							1													
<i>Podolepis gracilis</i>																				1
<i>Poranthera microcephala</i>														1						

<i>Ptilotus sericostachyus</i>						1														
<i>Pyrorchis nigricans</i>		1	1			1			1						1					
<i>Ranunculus muricatus</i>	*			1																
<i>Rhodanthe citrina</i>						1														
<i>Romulea rosea</i>	*		1		1	1			1	1	1				1					
<i>Romulea rosea var. communis</i>	*																			1
<i>Rumex acetosella</i>	*			2				1												
<i>Rumex conglomeratus</i>	*			1																
<i>Rumex crispus</i>	*			1																
<i>Rytidosperma occidentale</i>																				1
<i>Scaevola calliptera</i>		1	1																	
<i>Schoenus grandiflorus</i>																	1	1		
<i>Sonchus oleraceus</i>	*			1																
<i>Sonchus sp.</i>	*			1																
<i>Sowerbaea laxiflora</i>		1			1						1		1	1		1			1	
<i>Spergula arvensis</i>	*			1																
<i>Sporobolus africanus</i>	*								1											
<i>Spyridium globulosum</i>															1		1	1		
<i>Stirlingia latifolia</i>									1											
<i>Stylidium brunonianum</i>									1											1
<i>Stylidium calcaratum</i>					1															
<i>Stylidium ciliatum</i>									1											
<i>Stylidium schoenoides</i>		1			1	1														
<i>Stypandra glauca</i>											1									
<i>Thelymitra benthamiana</i>		2	1		1	1			1		1		1	1		1	1			
<i>Thelymitra graminea</i>									1										1	
<i>Thelymitra macrophylla</i>			2			1			1				1		1			1		
<i>Thysanotus ? manglesianus</i>		1			1				1					1		1	1	1		
<i>Thysanotus multiflorus</i>		1																		

<i>Trachyandra divaricata</i>																1					
<i>Trachymene pilosa</i>		1	1		1	1	1		1		1	1	1	1					1		
<i>Tricoryne elatior</i>							1						1								
<i>Trifolium arvense</i> var. <i>arvense</i>	*									1											
<i>Trifolium campestre</i>	*											1	1			1	1	1			
<i>Trifolium repens</i>	*			1						1								1			
<i>Trifolium</i> sp.	*					1		1													
<i>Ursinia anthemoides</i>	*	1	1		1	1	1				1			1		1	1	1			
<i>Xanthorrhoea brunonis</i>					1				1			1			1	1	1	1	1	1	1
<i>Xanthorrhoea gracilis</i>		1				1	1														
<i>Xanthosia huegelii</i>		1			1				1												1
<i>Xylomelum occidentale</i>		1	1										1								1
<i>Zantedeschia aethiopica</i>	*									1						1	1				
<b>Grand Total</b>		<b>46</b>	<b>40</b>	<b>25</b>	<b>39</b>	<b>36</b>	<b>35</b>	<b>16</b>	<b>35</b>	<b>20</b>	<b>16</b>	<b>32</b>	<b>18</b>	<b>26</b>	<b>42</b>	<b>27</b>	<b>33</b>	<b>32</b>	<b>39</b>	<b>21</b>	<b>29</b>

**BUNBURY OUTER RING ROAD – SOUTH: QUADRAT and PHOTOGRAPHIC REFERENCE  
POINTS / NOTES**


# 1 QUADRAT DATA – BORR SOUTH 2018

<b>Site</b>		<b>GBREL01</b>			
<b>Type:</b> Quadrat	<b>Size:</b> 10 x 10	<b>Date:</b> 31/10/2018	<b>Described by:</b> MT		
<b>Co-ordinates (PCG94)</b>	<b>Easting:</b>	35185.2335	<b>Northing:</b>	104021.4791	
<b>Location:</b> Lot 5 on Plan 43322					
<b>Vegetation Type:</b> VT7					
<b>Landform:</b> Swamp <b>Slope:</b> Gentle		<b>Drainage:</b> Permanent Wet			
<b>Soil Colour &amp; Type:</b> Black silt					
<b>Vegetation Condition:</b> Very Good (3)					
<b>Disturbances:</b> Weeds, grazing, berm effect on hydrology					
<b>Fire Age &amp; Intensity:</b> Old >5yr – no damage					
<b>Bare Ground:</b> 2-10% <b>Humus/Litter:</b> Plentiful – 31-70%					
<b>Wood Litter:</b> Moderate					




Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Lemna disperma</i>	0	G2	<2T	0.01
Cyperaceae	<i>Carex divisa</i>	*	G1	<10	0.8
Cyperaceae	<i>Ficinia nodosa</i>	0	G1	<2T	0.3
Juncaceae	<i>Juncus pallidus</i>	0	G1	10-30	1
Lauraceae	<i>Cassytha sp.</i>	0	M1	<2N	0.5
Myrtaceae	<i>Agonis flexuosa</i>	0	U1	<10	8
Myrtaceae	<i>Melaleuca preissiana</i>	0	U1	30-70	6-8
Myrtaceae	<i>Melaleuca raphiophylla</i>	0	M1	<10	5
Poaceae	<i>Cynodon dactylon</i>	*	G2	<2N	0.1
Poaceae	<i>Holcus lanatus</i>	*	G1	<2N	0.2




Site		GBREL02				
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	36161.3884	Northing:	103489.0308		
Location: Lot 5 on Plan 43322						
Vegetation Type: VT7						
Landform: Swamp	Slope: Negligible	Drainage: Permanent Wet				
Soil Colour & Type: Black silt						
Vegetation Condition: Very Good (3)						
Disturbances: Weeds, grazing						
Fire Age & Intensity: Old >5yr – no damage						
Bare Ground: <2% Humus/Litter: Negligible – 2-10%						
Wood Litter: Sparse						


Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Lemna disperma</i>	0	G2	10-30	0.01
Asteraceae	<i>Cotula coronopifolia</i>	*	G1	10-30	0.05
Cyperaceae	<i>Carex divisa</i>	*	G1	<10	0.1
Cyperaceae	<i>Carex divisa</i>	*	G1	<10	0.4
Cyperaceae	<i>Isolepis cernua</i> var. <i>setiformis</i>	0	G2	<2N	0.1
Iridaceae	<i>Moraea flaccida</i>	*	G1	<2T	0.1
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.1
Juncaginaceae	<i>Cycnogeton lineare</i>	0	G1	<2N	0.1
Myrtaceae	<i>Melaleuca preissiana</i>	0	U1	30-70	4-5
Orchidaceae	<i>Microtis media</i> subsp <i>media</i>	0	G1	<2N	0.4
Phytolaccaceae	<i>Phytolacca octandra</i>	*	G1	<2N	0.1
Plantaginaceae	<i>Callitriche stagnalis</i>	*	G2	<2N	0.01
Poaceae	<i>Cynodon dactylon</i>	*	G2	<2N	0.2
Restionaceae	<i>Leptocarpus kraussii</i>	0	G1	<2T	0.6

Site		GBREL03			
Type: Quadrat	Size: 10 x 10	Date: 21/08/2018	Described by: AB		
Co-ordinates (PCG94)	Easting:	35341.3938	Northing:	102961.3627	
Location: Lot 244 on Plan 232800					
Vegetation Type: VT7					
Landform: Drainage Depression Slope: Steep	Drainage: Seasonal Wet				
Soil Colour & Type: Black clay					
Vegetation Condition: Good (4) to Degraded (6)					
Disturbances: Weeds, cattle					
Fire Age & Intensity: Nil – no damage					
Bare Ground: – Humus/Litter: Moderate					
Wood Litter: Moderate					


Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Asteraceae	<i>Cotula coronopifolia</i>	*	G2	30-70	0.1
Asteraceae	<i>Cotula turbinata</i>	*	G2	10-30	0.1
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	2-10	0.1
Asteraceae	<i>Sonchus oleraceus</i>	*	G2	<2	0.1
Cyperaceae	<i>Ficinia nodosa</i>		G1	2-10	0.4
Cyperaceae	<i>Lepidosperma longitudinale</i>		G1	10-30	0.4
Fabaceae	<i>Lotus angustissimus</i>	*	M2	10-30	0.2
Juncaceae	<i>Juncus kraussii</i>		G1	2-10	0.4
Juncaceae	<i>Juncus pallidus</i>		G1	2-10	0.4
Juncaginaceae	<i>Liparophyllum ? latifolium</i>		G2	<2	0.2
Lauraceae	<i>Cassytha sp. (sterile)</i>		Cl	<2	cl
Myrtaceae	<i>Astartea scoparia</i>		M1	<2	1.5
Myrtaceae	<i>Melaleuca preissiana</i>		U1	2-10	5
Myrtaceae	<i>Melaleuca raphiophylla</i>		U1	10-30	8
Myrtaceae	<i>Melaleuca viminea</i>		M1	2-10	1.5
Poaceae	<i>Briza minor</i>	*	G1	<2	0.4
Poaceae	<i>Cenchrus clandestinus</i>	*	G1	30-70	0.2

Site		GBREL04			
Type: Quadrat	Size: 2 x 10	Date: 21/08/2018	Described by: AB		
Co-ordinates (PCG94)	Easting:	35553.459	Northing:	103139.3345	
Location: Lot 244 on Plan 232800					
Vegetation Type: VT3					
Landform: Plain Slope: Gentle	Drainage: Good				
Soil Colour & Type: Grey sand					
Vegetation Condition: Degraded (6)					
Disturbances: Weeds, cattle					
Fire Age & Intensity: Nil – no damage					
Bare Ground: – Humus/Litter: Moderate					
Wood Litter: Moderate					

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Anarthriaceae	<i>Lyginia barbata</i>		G1	<2N	0.3
Asparagaceae	<i>Lomandra ?caespitosa</i>		G1	<2T	0.2
Asteraceae	<i>Arctotheca calendula</i>	*	G2	10-30	0.1
Asteraceae	<i>Cotula turbinata</i>	*	G2	10-30	0.2
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	10-30	0.1
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	10-30	0.1
Dasypogonaceae	<i>Dasypogon bromeliifolius</i>		G1	10-30	0.5
Ericaceae	<i>Ericaceae sp.</i>		M2	<2T	1.5
Fabaceae	<i>Acacia pulchella</i>		M2	<2T	1.5
Iridaceae	<i>Romulea rosea</i>	*	G2	2-10	0.1
Loranthaceae	<i>Nuytsia floribunda</i>		M1	<2T	5
Myrtaceae	<i>Agonis flexuosa</i>		U1	2-10	6
Myrtaceae	<i>Eucalyptus marginata</i>		U1	<2	6
Myrtaceae	<i>Kunzea glabrescens</i>		M1	<2	4
Poaceae	<i>Briza maxima</i>	*	G1	2-10	0.3
Poaceae	<i>Ehrharta sp.</i>	*	G1	2-10	0.3
Proteaceae	<i>Banksia attenuata</i>		M1	2-10	8
Proteaceae	<i>Banksia ilicifolia</i>		M1	<2	8
Proteaceae	<i>Xylomelum occidentale</i>		M1	<2	6
Restionaceae	<i>Desmocladus flexuosus</i>		G1	10-30	0.2
Restionaceae	<i>Desmocladus fasciculatus</i>		G1	<2	0.2


Site		GBREL05			
<b>Type:</b> Quadrat	<b>Size:</b> 2 x 10	<b>Date:</b> 21/08/2018	<b>Described by:</b> AB		
<b>Co-ordinates (PCG94)</b>	<b>Easting:</b>	35945.8417	<b>Northing:</b>	103535.5991	
<b>Location:</b> Lot 244 on Plan 232800					
<b>Vegetation Type:</b> VT3					
<b>Landform:</b> Plain <b>Slope:</b> Gentle	<b>Drainage:</b> Good				
<b>Soil Colour &amp; Type:</b> Sandy Clay					
<b>Vegetation Condition:</b> Degraded (6)					
<b>Disturbances:</b> Weeds, cattle					
<b>Fire Age &amp; Intensity:</b> Nil – no damage					
<b>Bare Ground: – Humus/Litter:</b> Moderate					
<b>Wood Litter:</b> Moderate					

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Zantedeschia aethiopica</i>	*DP	M2	<2T	0.4
Myrtaceae	<i>Corymbia calophylla</i>		U1	30-70	5-8
Proteaceae	<i>Banksia attenuata</i>		M1	<2T	1.5
Proteaceae	<i>Banksia ilicifolia</i>		M1	<2T	1.5
Proteaceae	<i>Xylomelum occidentale</i>		M1	2-10	2
Xanthorrhoeaceae	<i>Xanthorrhoea gracilis</i>		M2	2-10	0.4
Poaceae	Pasture grasses	*	G1	70-100	0.2

Site		GBQ01			
Type: Quadrat	Size: 10 x 10	Date: 29/10/2018	Described by: MT		
Co-ordinates (PCG94)	Easting:	31000.86	Northing:	98459.76	
Location: Lakes Road					
Vegetation Type: VT1					
Landform: Plain Slope: Negligible	Drainage: Good				
Soil Colour & Type: Sand					
Vegetation Condition: Very Good (3)					
Disturbances: Weeds					
Fire Age & Intensity: Old > 5 yr – few trees killed					
Bare Ground: 20% Humus/Litter: Moderate – 31-70%					
Wood Litter: Sparse					

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apiaceae	<i>Xanthosia huegelii</i>	0	G2	<2T	0.05
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2T	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2T	0.5
Asparagaceae	<i>Dichopogon capillipes</i>	0	M3	<2N	0.3
Asparagaceae	<i>Lomandra hermaphrodita</i>	0	G1	<2T	0.2
Asparagaceae	<i>Lomandra purpurea</i>		M3	<2T	0.2
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2N	0.4
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G2	<2T	0.2
Asparagaceae	<i>Thysanotus multiflorus</i>	0	G2	<2T	0.1
Asteraceae	<i>Hypochaeris radicata</i>	*	G2	<2T	0.02
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2T	0.03
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2T	0.02
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.4
Cyperaceae	<i>Lepidosperma pubisquameum</i>	0	G1	<10	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>	0	M2	30-70	0.4
Droseraceae	<i>Drosera erythrorhiza</i>	0	G2	<2T	0.02
Ericaceae	<i>Leucopogon propinquus</i>		M3	<2T	0.2
Fabaceae	<i>Bossiaea eriocarpa</i>	0	M3	<2T	0.3
Fabaceae	<i>Gompholobium tomentosum</i>	0	G1	<2T	0.2
Fabaceae	<i>Hardenbergia comptoniana</i>		M3	<2T	0.2
Goodeniaceae	<i>Scaevola calliptera</i>		G2	<2N	0.3
Haemodoraceae	<i>Conostylis aculeata</i> subsp. <i>preissii</i>	0	G1	<2T	0.2
Haemodoraceae	<i>Phlebocarya ciliata</i>	0	G2	<2T	0.1
Myrtaceae	<i>Eucalyptus marginata</i> subsp. <i>marginata</i>	0	M3	<2T	0.4
Orchidaceae	<i>Caladenia flava</i> subsp. <i>flava</i>		G2	<2T	0.05
Orchidaceae	<i>Pyrorchis nigricans</i>	0	G2	<2N	0.01
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G2	<2T	0.1
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G2	<2T	0.3
Phytolaccaceae	<i>Phyllanthus calycinus</i>	0	M3	<2T	0.2
Poaceae	<i>Austrostipa campylachne</i>	0	G1	<2T	0.4
Poaceae	<i>Avena barbata</i>	*	G1	<2N	0.4


Poaceae	<i>Briza maxima</i>	*	G1	10-30	0.1
Poaceae	<i>Ehrharta longiflora</i>	*	G1	<2N	0.4
Poaceae	<i>Hordeum leporinum</i>	*	G1	<2T	0.2
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-70	6
Proteaceae	<i>Banksia grandis</i>	0	U1	<10	2-4
Proteaceae	<i>Xylomelum occidentale</i>	0	M3	<2T	0.2
Restionaceae	<i>Desmocladus fascicularis</i>	0	G1	<2N	0.1
Restionaceae	<i>Hypolaena exsulca</i>	0	G1	<2N	0.4
Rubiaceae	<i>Opercularia apiciflora</i>	0	G1	<2T	0.3
Rutaceae	<i>Philotheca spicata</i>		M3	<2T	0.2
Stylidiaceae	<i>Levenhookia pusilla</i>	0	G2	<2N	0.05
Stylidiaceae	<i>Stylidium schoenoides</i>	0	G2	<2T	0.05
Xanthorrhoeaceae	<i>Chamaescilla corymbosa</i>	0	G2	<2N	0.05
Xanthorrhoeaceae	<i>Xanthorrhoea gracilis</i>	0	M1	<10	1
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<2T	0.4

Site		GBQ02		
Type: Quadrat	Size: 10 x 10	Date: 30/10/2018	Described by: MT	
Co-ordinates (PCG94)	Easting:	33434.85	Northing:	99831.159
Location: P Road				
Vegetation Type:				
Landform: Plain Slope: Negligible	Drainage: Good			
Soil Colour & Type: Sand				
Vegetation Condition: Very Good (3)				
Disturbances: Weeds				
Fire Age & Intensity: Old > 5 yr – few trees killed				
Bare Ground: 2-10% Humus/Litter: Moderate – 31-70%				
Wood Litter: Moderate				

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.02
Asparagaceae	<i>Lomandra purpurea</i>		G1	<2T	0.5
Asparagaceae	<i>Lomandra sp.</i>	0	G1	10-30	0.4
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	10-30	0.4
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.02
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2N	0.05
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.05
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.4
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2N	0.4
Dasygogonaceae	<i>Dasygogon bromeliifolius</i>		G1	<2N	0.4
Dilleniaceae	<i>Hibbertia hypericoides subsp hypericoides</i>	0	M2	10-30	0.4
Ericaceae	<i>Petrophile linearis</i>	0	M3	<2T	0.2
Fabaceae	<i>Acacia pulchella var pulchella</i>	0	G2	<2T	0.6
Fabaceae	<i>Acacia extensa</i>	0	M2	<10	0.6
Fabaceae	<i>Acacia longifolia</i>	*	M1	<10	2
Fabaceae	<i>Daviesia physodes</i>	0	M3	<2T	0.4
Fabaceae	<i>Gompholobium polymorphum</i>	0	M3	<2N	0.2
Fabaceae	<i>Gompholobium tomentosum</i>	0	M3	<2T	0.2
Fabaceae	<i>Hardenbergia comptoniana</i>		M2	<2T	0.2
Goodeniaceae	<i>Scaevola calliptera</i>		G1	<2N	0.3
Haemodoraceae	<i>Conostylis aculeata subsp preissii</i>	0	G1	<2N	0.2
Hemerocallidaceae	<i>Agrostocrinum scabrum</i>	0	G1	<2T	0.4
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2N	0.3
Iridaceae	<i>Romulea rosea</i>	*	M3	<2N	0.05
Myrtaceae	<i>Corymbia calophylla</i>		U1/U2	30-70 / 10-30	6-10
Myrtaceae	<i>Eucalyptus marginata subsp. Marginata</i>	0	U2	10-30	6
Myrtaceae	<i>Hypocalymma robustum</i>	0	M3	<2T	0.2
Orchidaceae	<i>Caladenia flava subsp. Flava</i>		G2	<2N	0.1
Orchidaceae	<i>Cryptostylis ovata (leaf only)</i>	0	G2	<2N	0.05
Orchidaceae	<i>Microtis media subsp media</i>	0	G2	<2T	0.1

Orchidaceae	<i>Pyrorchis nigricans</i>	0	G2	<2N	0.02
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G1	<2T	0.3
Orchidaceae	<i>Thelymitra macrophylla</i>	0	G1	<2T	0.3
Orchidaceae	<i>Thelymitra macrophylla</i>	0	G2	<2T	0.3
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.3
Proteaceae	<i>Banksia attenuata</i>	0	M1	<10	2-3
Proteaceae	<i>Xylomelum occidentale</i>	0	M2	<2T	1
Restionaceae	<i>Desmocladus fascicularis</i>	0	G1	<2N	0.1
Restionaceae	<i>Hypolaena exsulca</i>	0	G1	<2N	0.2
Rubiaceae	<i>Opercularia hispidula</i>		G1	<10	0.4




Site		GBQ03				
Type: Quadrat		Size: 10 x 10	Date: 30/10/2018	Described by: MT		
Co-ordinates (PCG94)		Easting:	33481.7793	Northing:	99787.8383	
Location: P Road						
Vegetation Type:						
Landform: Drainage Line		Drainage: Seasonal Wet				
Slope: Gentle						
Soil Colour & Type: Grey Silty Sand						
Vegetation Condition: Degraded (6)						
Disturbances: Weeds						
Fire Age & Intensity: Old > 5 yr – minor impact						
Bare Ground: 11-30% Humus/Litter: Sparse – 2-10%						
Wood Litter: Sparse						

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Asteraceae	<i>Conyza bonariensis</i>	*	G1	<2N	0.1
Asteraceae	<i>Cotula coronopifolia</i>	*	G2	<2N	0.05
Asteraceae	<i>Cotula turbinata</i>	*	G1	<2N	0.1
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.01
Asteraceae	<i>Hypochaeris radicata</i>	*	G2	<2N	0.05
Asteraceae	<i>Sonchus oleraceus</i>	*	G1	<2N	0.1
Asteraceae	<i>Sonchus sp.</i>	*	G1	<2N	1
Caryophyllaceae	<i>Spergula arvensis</i>	*	G2	<2N	0.05
Crassulaceae	<i>Crassula natans var. minus</i>	*	G1	<2N	0.1
Cyperaceae	<i>Ficinia nodosa</i>	0	G1	<2T	0.4
Cyperaceae	<i>Lepidosperma longitudinale</i>	0	G1	10-30	1
Fabaceae	<i>Lotus subbiflorus</i>	*	G1	<2N	0.1
Fabaceae	<i>Trifolium repens</i>	*	G1	<2N	0.1
Geraniaceae	<i>Geranium molle</i>	*	G2	<2N	0.3
Lamiaceae	<i>Mentha pulegium</i>	*	G2	<10	0.4
Myrtaceae	<i>Eucalyptus rudis</i>	0	U1	30-70	10
Myrtaceae	<i>Melaleuca preissiana</i>	0	U2	10-30	6
Poaceae	<i>Avena fatua</i>	*	G1	<2N	0.2
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.1
Poaceae	<i>Ehrharta longiflora</i>	*	G1	<10	0.4
Polygonaceae	<i>Rumex acetosella</i>	*	G2	<2-	0.2
Polygonaceae	<i>Rumex acetosella</i>	*	G2	<2N	0.1
Polygonaceae	<i>Rumex conglomeratus</i>	*	G1	<2-	0.4
Polygonaceae	<i>Rumex crispus</i>	*	M1	10-30	1
Ranunculaceae	<i>Ranunculus muricatus</i>	*	G2	<2N	0.4

Site		GBQ04			
Type: Quadrat	Size: 10 x 10	Date: 30/10/2018	Described by: MT		
Co-ordinates (PCG94)	Easting:	32483.9787	Northing:	99514.5705	
Location: Lot 1 on Diagram 64715					
Vegetation Type:					
Landform: Lower slope	Drainage: Good				
Slope: Moderate					
Soil Colour & Type: Grey Silty Sand					
Vegetation Condition: Very Good (3)					
Disturbances: Weeds					
Fire Age & Intensity: Old > 5 yr – few trees killed					
Bare Ground: 2-10% Humus/Litter: Plentiful – 11-30%					
Wood Litter: Moderate					


Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apiaceae	<i>Xanthosia huegelii</i>	0	G2	<2N	0.1
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G2	10-30	0.1
Asparagaceae	<i>Lomandra caespitosa</i>	0	G2	<2N	0.05
Asparagaceae	<i>Lomandra sp.</i>	0	G1	<10	0.4
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.4
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2N	0.4
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G2	<2T	0.1
Asteraceae	<i>Asteridea pulverulenta</i>	0	G2	<2T	0.1
Asteraceae	<i>Hyalosperma cotula</i>	0	G2	<2N	0.05
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2N	0.05
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.2
Campanulaceae	<i>Hybanthus calycinus</i>	0	G2	<2N	0.1
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.4
Cyperaceae	<i>Lepidosperma pubisquameum</i>	0	G1	<2N	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M3	<10	0.2
Ericaceae	<i>Leucopogon propinquus</i>		M1	<10	1-2
Fabaceae	<i>Bossiaea eriocarpa</i>	0	M3	<2T	0.2
Fabaceae	<i>Gompholobium tomentosum</i>	0	M3	<2T	0.2
Fabaceae	<i>Hardenbergia comptoniana</i>		M2	<2N	0.4
Fabaceae	<i>Hovea trisperma</i>		M3	<2T	0.1
Fabaceae	<i>Kennedia prostrata</i>		M3	<2T	0.05
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G2	<2N	0.1
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2T	0.5
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.05
Myrtaceae	<i>Agonis flexuosa</i>	0	U2	10-30	4-6
Myrtaceae	<i>Eucalyptus marginata</i> subsp. <i>marginata</i>	0	U1	<10	6-8
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G2	<2T	0.2
Phytolaccaceae	<i>Phyllanthus calycinus</i>	0	M3	<2N	0.2

Poaceae	<i>Briza maxima</i>	*	G1	10-30	0.4
Poaceae	<i>Ehrharta calycina</i>	*	G1	10-30	0.4
Poaceae	<i>Ehrharta longiflora</i>	*	G1	10-30	0.4
Proteaceae	<i>Banksia attenuata</i>	0	U2	10-30	3-6
Restionaceae	<i>Desmocladus fascicularis</i>	0	G2	<2N	0.05
Stylidiaceae	<i>Levenhookia pusilla</i>	0	G2	<2N	0.05
Stylidiaceae	<i>Stylidium schoenoides</i>	0	G2	<2T	0.05
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M2	<2T	0.5
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<2T	0.5

Site		GBQ05			
Type: Quadrat	Size: 10 x 10	Date: 30/10/2018	Described by: MT		
Co-ordinates (PCG94)	Easting:	32277.9168	Northing:	99520.5024	
Location: Lot 1 on Diagram 64715					
Vegetation Type:					
Landform: Lower slope	Drainage: Good				
Slope: Gentle					
Soil Colour & Type: Yellow Silty Sand					
Vegetation Condition: Very Good (3)					
Disturbances: Weeds					
Fire Age & Intensity: Old > 5 yr – few trees killed					
Bare Ground: <2% Humus/Litter: Moderate – 2-10%					
Wood Litter: Moderate					


Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G2	10-30	0.1
Asparagaceae	<i>Lomandra caespitosa</i>	0	G1	<2N	0.05
Asteraceae	<i>Asteridea pulverulenta</i>	0	G2	<2N	0.1
Asteraceae	<i>Hyalosperma cotula</i>	0	G2	<2N	0.05
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2N	0.05
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.05
Campanulaceae	<i>Hybanthus calycinus</i>	0	G2	<2T	0.3
Caryophyllaceae	<i>Petrorhagia dubia</i>	*	G2	<2T	0.2
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.3
Cyperaceae	<i>Lepidosperma pubisquameum</i>	0	G1	<2T	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M2	10-30	0.2
Droseraceae	<i>Drosera stolonifera</i>	0	G2	<2N	0.1
Ericaceae	<i>Astroloma pallidum</i>	0	M3	<2T	0.1
Ericaceae	<i>Leucopogon propinquus</i>		M1	10-30	1.5
Fabaceae	<i>Bossiaea eriocarpa</i>	0	M3	<2T	0.2
Fabaceae	<i>Gompholobium tomentosum</i>	0	M3	<2N	0.4
Fabaceae	<i>Hardenbergia comptoniana</i>		M2	<2T	0.4
Fabaceae	<i>Trifolium sp.</i>	*	G2	<2N	0.05
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G1	<2N	0.4
Hemerocallidaceae	<i>Agrostocrinum scabrum</i>	0	G1	<2N	0.3
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.1
Orchidaceae	<i>Caladenia flava</i> subsp. <i>flava</i>		G2	<2T	0.1
Orchidaceae	<i>Pyrorchis nigricans</i>	0	G2	<2T	0.05
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G2	<2N	0.3
Orchidaceae	<i>Thelymitra macrophylla</i>		G2	<2T	0.4
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.3
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.3

Primulaceae	<i>Lysimachia arvensis</i>	*	G2	<2T	0.05
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-70	2-6
Restionaceae	<i>Desmocladius fascicularis</i>	0	G2	<2N	0.1
Stylidiaceae	<i>Levenhookia pusilla</i>	0	G2	<2N	0.05
Stylidiaceae	<i>Stylidium calcaratum</i>	0	G2	<2N	0.05
Stylidiaceae	<i>Stylidium schoenoides</i>	0	G2	<2T	0.02
Xanthorrhoeaceae	<i>Xanthorrhoea gracilis</i>	0	M2	<10	0.4

Site		GBQ06			
Type: Quadrat	Size: 10 x 10	Date: 30/10/2018	Described by: MT		
Co-ordinates (PCG94)	Easting:	32664.2075	Northing:	99596.808	
Location: Lot 1 on Diagram 64715					
Vegetation Type:					
Landform: Mid Slope	Drainage: Good				
Slope: Gentle					
Soil Colour & Type: Yellow Sand					
Vegetation Condition: Good (4)					
Disturbances: Weeds					
Fire Age & Intensity: Old > 5 yr – minor impact					
Bare Ground: 31-70% Humus/Litter: Moderate – 11-30%					
Wood Litter: Moderate					


Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Amaranthaceae	<i>Ptilotus sericostachyus</i>	0	G2	<2T	0.02
Apiaceae	<i>Eryngium pinnatifidum</i>	0	G2	<2T	0.1
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2T	0.4
Asparagaceae	<i>Lomandra odora</i>	0	G2	<2T	0.1
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.3
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2N	0.1
Asteraceae	<i>Rhodanthe citrina</i>	0	G2	<2T	0.1
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.05
Campanulaceae	<i>Hybanthus calycinus</i>	0	G2	<2T	0.1
Campanulaceae	<i>Lobelia heterophylla</i>	0	G2	<2N	0.1
Caryophyllaceae	<i>Petrorhagia dubia</i>	*	G2	<2N	0.1
Cyperaceae	<i>Lepidosperma pubisquameum</i>	0	G1	<2N	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M3	<10	0.2
Dilleniaceae	<i>Hibbertia racemosa</i>		M3	<2T	0.2
Ericaceae	<i>Leucopogon propinquus</i>		M1	<10	1
Fabaceae	<i>Hardenbergia comptoniana</i>		G	<2N	0.4
Haemodoraceae	<i>Conostylis juncea</i>	0	G2	<2N	0.1
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2T	0.5
Hemerocallidaceae	<i>Tricoryne elatior</i>	0	G2	<2T	0.1
Myrtaceae	<i>Agonis flexuosa</i>	0	U1	10-30	6-8
Myrtaceae	<i>Agonis flexuosa</i>	0	M1	10-30	1-2
Phytolaccaceae	<i>Phyllanthus calycinus</i>	0	M3	<2T	0.2
Poaceae	<i>Avena fatua</i>	*	G1	<2N	0.4
Poaceae	<i>Briza maxima</i>	*	G1	<10	0.4
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.4
Primulaceae	<i>Lysimachia arvensis</i>	*	G2	<2N	0.05
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-70	6-8
Proteaceae	<i>Banksia grandis</i>	0	M1	<10	2

Rubiaceae	<i>Opercularia vaginata</i>	0	G1	<2N	0.2
Stylidiaceae	<i>Levenhookia pusilla</i>	0	G2	<2N	0.05
Thymelaeaceae	<i>Pimelea rosea subsp rosea</i>	0	M2	<2T	0.8
Xanthorrhoeaceae	<i>Chamaescilla corymbosa</i>	0	G2	<10	0.1
Xanthorrhoeaceae	<i>Xanthorrhoea gracilis</i>	0	M2	<10	0.4
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<10	0.8

Site		GBQ07			
Type: Quadrat	Size: 10 x 10	Date: 30/10/2018	Described by: MT		
Co-ordinates (PCG94)	Easting:	32961.506	Northing:	99680.0124	
Location: Lot 48 on Diagram 61255					
Vegetation Type:					
Landform: Plain Slope: Negligible	Drainage: Good				
Soil Colour & Type: Yellow Silty Sand					
Vegetation Condition: Degraded (6)					
Disturbances: Weeds, grazing, milling					
Fire Age & Intensity: Old > 5 yr – few trees killed					
Bare Ground: 2-10% Humus/Litter: Moderate – 11-30%					
Wood Litter: Moderate					


Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Asteraceae	<i>Cotula turbinata</i>	*	G2	<2T	0.05
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Caryophyllaceae	<i>Petrorhagia dubia</i>	*	G2	<2N	0.1
Dilleniaceae	<i>Hibbertia cuneiformis</i>	0	M1	<10	2
Euphorbiaceae	<i>Euphorbia peplus</i>	*	G2	<2N	0.1
Fabaceae	<i>Trifolium sp.</i>	*	G2	<2N	0.02
Myrtaceae	<i>Agonis flexuosa</i>	0	U1	30-70	8-10
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<10	0.05
Poaceae	<i>Avena barbata</i>	*	G1	10-30	0.3
Poaceae	<i>Briza maxima</i>	*	G1	<10	0.2
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.3
Poaceae	<i>Ehrharta longiflora</i>	*	G1	<2N	0.4
Poaceae	<i>Lolium rigidum</i>	*	G1	10-30	0.3
Polygonaceae	<i>Rumex acetosella</i>	*	G2	<2N	0.1
Proteaceae	<i>Banksia attenuata</i>	0	U2	<2T	6
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<2T	0.2




Site		GBQ08					
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT				
Co-ordinates (PCG94)	Easting:	35113.4684	Northing:	104443.1311			
Location: P Road							
Vegetation Type:							
Landform: Drainage Depression	Drainage: Seasonal Wet					Slope: Negligible	
Soil Colour & Type: Grey Silty Sand							
Vegetation Condition: Good (4)							
Disturbances: Grazed, fragment, hydrology likely disturbed							
Fire Age & Intensity: Old > 5 yr – minor impact							
Bare Ground: 11-30% Humus/Litter: Moderate – 31-70%							
Wood Litter: Moderate							

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Anarthriaceae	Lyginia barbata		G1	<2N	0.4
Apiaceae	Xanthosia huegelii	0	G2	<2T	0.3
Araliaceae	Trachymene pilosa	0	G2	<2N	0.03
Asparagaceae	Phlebocarya ciliata	0	G1	<10	0.3
Asparagaceae	Thysanotus ? manglesianus	0	G1	<2T	0.4
Colchicaceae	Burchardia congesta		G1	<2N	0.4
Cyperaceae	Lepidosperma pubisquamum	0	G1	<2N	0.4
Dasyopogonaceae	Dasyopogon bromeliifolius		G1	<10	0.2
Dilleniaceae	Hibbertia hypericoides subsp hypericoides	0	M3	<2T	0.2
Dilleniaceae	Hibbertia vaginata	0	M3	<2T	0.3
Droseraceae	Drosera sp. climbing (nf)	0	G2	<2N	0.1
Fabaceae	Acacia applanata	0	M2	<2T	0.2
Fabaceae	Acacia huegelii	0	M3	<2T	0.1
Fabaceae	Bossiaea eriocarpa	0	M2	<2T	0.2
Fabaceae	Hovea trisperma		M3	<2T	0.2
Fabaceae	Jacksonia horrida	0	M2	<2T	0.6
Fabaceae	Kennedia prostrata		M3	<2T	0.05
Myrtaceae	Corymbia calophylla		U1	<10	6-7
Myrtaceae	Kunzea glabrescens	0	U2	30-70	5
Myrtaceae	Melaleuca thymoides		M1	<10	1.4
Orchidaceae	Pyrorchis nigricans	0	G2	<2T	0.02
Orchidaceae	Thelymitra benthamiana	0	G1	<2T	0.2
Orchidaceae	Thelymitra graminea	0	G1	<2T	0.1
Orchidaceae	Thelymitra macrophylla	0	G2	<2T	0.2
Poaceae	Briza maxima	*	G1	<2N	0.2
Proteaceae	Banksia attenuata	0	U2	<10	5
Proteaceae	Banksia grandis	0	M1	<2T	0.8
Proteaceae	Banksia ilicifolia	0	U1	<10	5-7
Proteaceae	Stirlingia latifolia		M2	<10	0.3


Restionaceae	Desmocladus fascicularis	0	G2	<2N	0.1
Restionaceae	Hypolaena exsulca	0	G1	<2N	0.3
Stylidiaceae	Stylidium brunonianum	0	G1	<2T	0.3
Stylidiaceae	Stylidium ciliatum	0	G2	<2T	0.2
Xanthorrhoeaceae	Xanthorrhoea brunonis	0	M1	<2T	0.6
Zamiaceae	Macrozamia riedlei	0	M3	<2T	0.2

Site		GBQ09				
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	35222.8637	Northing:	103453.3281		
Location: Lot 500 on Plan 24543						
Vegetation Type:						
Landform: Swamp	Slope: Negligible	Drainage: Seasonal Wet				
Soil Colour & Type: Black silt						
Vegetation Condition: Degraded (6)						
Disturbances: Weeds, grazing, cattle, clearing, altered drainage						
Fire Age & Intensity: Old > 5 yr – no damage						
Bare Ground: 2% Humus/Litter: Sparse – 2-10%						
Wood Litter: Negligible						

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Zantedeschia aethiopica</i>	*DP/WoNS	M1	<2T	0.3
Asteraceae	<i>Cotula coronopifolia</i>	*	G2	<2T	0.1
Asteraceae	<i>Cotula turbinata</i>	*	G2	<2T	0.1
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Cyperaceae	<i>Carex divisa</i>	*	G2	10-30	0.1
Cyperaceae	<i>Carex divisa</i>	*	G1	<2N	0.2
Cyperaceae	<i>Isolepis cernua</i> var. <i>setiformis</i>	0	G2	<2N	0.05
Fabaceae	<i>Lotus subbiflorus</i>	*	G2	10-30	0.05
Fabaceae	<i>Trifolium arvense</i> var. <i>arvense</i>	*	G2	<2N	0.1
Fabaceae	<i>Trifolium repens</i>	*	G2	<10	0.1
Iridaceae	<i>Romulea rosea</i>	*	G1	<2N	0.1
Juncaceae	<i>Juncus pallidus</i>	0	G1	<10	1
Myrtaceae	<i>Melaleuca preissiana</i>	0	U1	<10	4-5
Myrtaceae	<i>Melaleuca raphiophylla</i>	0	G1	<10	4-5
Orchidaceae	<i>Microtis media</i> subsp. <i>media</i>	0	G1	<2N	0.3
Phytolaccaceae	<i>Phytolacca octandra</i>	*	G1	<2T	0.2
Poaceae	<i>Cynodon dactylon</i>	*	G2	<10	0.1
Poaceae	<i>Holcus lanatus</i>	*	G2	10-30	0.4
Poaceae	<i>Hordeum leporinum</i>	*	G1	<2N	0.3
Poaceae	<i>Lolium rigidum</i>	*	G1	<10	0.2
Poaceae	<i>Sporobolus africanus</i>	*	G1	<2N	0.3


Site		GBQ10				
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	35586.6254	Northing:	103240.2728		
Location: Lot 244 on Plan 232800						
Vegetation Type:						
Landform: Swamp	Slope: Negligible	Drainage: Seasonal Wet				
Soil Colour & Type: Black Silt						
Vegetation Condition: Good (4)						
Disturbances: Weeds, grazing, cattle						
Fire Age & Intensity: Old > 5 yr – no damage						
Bare Ground: 31-70% Humus/Litter: Sparse – 11-30%						
Wood Litter: Moderate						

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2T	0.1
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.1
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.1
Cyperaceae	<i>Baumea juncea</i>	0	G1	30-70	0.3
Cyperaceae	<i>Cyathochaeta avenacea</i>		G1	<2T	0.4
Cyperaceae	<i>Cyperus tenellus</i>	*	G2	<2N	0.05
Droseraceae	<i>Drosera glanduligera</i>	0	G2	<2N	0.05
Fabaceae	<i>Lotus subbiflorus</i>	*	G2	<2N	0.1
Fabaceae	<i>Ornithopus compressus</i>	*	G2	<2N	0.2
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.1
Myrtaceae	<i>Astartea scoparia</i>		M1	<2T	0.1
Myrtaceae	<i>Kunzea glabrescens</i>	0	U1	30-70	4-6
Myrtaceae	<i>Kunzea glabrescens</i>	0	M1	<10	2-3
Orchidaceae	<i>Disa bracteata</i>	*	G2	<2N	0.1
Poaceae	<i>Anthoxanthum odoratum</i>	*	G1	<10	0.2
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.1


Site		GBQ11				
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	34440.5372	Northing:	104446.3494		
Location: P Road						
Vegetation Type:						
Landform: Mid Slope	Slope: Gentle					Drainage: Good
Soil Colour & Type: Yellow Silty Sand						
Vegetation Condition: Good (4)						
Disturbances: Weeds, clearing for adjacent fire break						
Fire Age & Intensity: Old > 5 yr – few trees killed						
Bare Ground: 11-30% Humus/Litter: Moderate – 31-70%						
Wood Litter: Moderate						

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G1	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2N	0.1
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.3
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2N	0.4
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.02
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2N	0.05
Cyperaceae	<i>Lepidosperma pubisquameum</i>	0	G1	<2T	0.3
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M1	30-10	0.4
Droseraceae	<i>Drosera stolonifera</i>	0	G2	<2N	0.1
Ericaceae	<i>Leucopogon propinquus</i>		M1	<2T	0.6
Ericaceae	<i>Petrophile linearis</i>	0	M3	<2T	0.1
Fabaceae	<i>Hardenbergia comptoniana</i>		M3	<2T	0.2
Fabaceae	<i>Trifolium campestre</i>	*	G2	<2N	0.1
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G2	<2N	0.1
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2N	0.3
Hemerocallidaceae	<i>Stypandra glauca</i>	0	G1	<2N	0.1
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2T	0.2
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.05
Myrtaceae	<i>Agonis flexuosa</i>	0	U2	70-30	8
Myrtaceae	<i>Corymbia calophylla</i>		U1	10-30	8
Orchidaceae	<i>Microtis</i> sp. nf tall (45 cm)	0	G1	<2T	0.4
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G1	<2T	0.2
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.2
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.1
Primulaceae	<i>Lysimachia arvensis</i>	*	G2	<2N	0.05
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-10	4-6
Restionaceae	<i>Desmocladus fascicularis</i>	0	G2	<2N	0.1
Restionaceae	<i>Desmocladus flexuosa</i>	0	G1	<2N	0.1
Rubiaceae	<i>Opercularia hispidula</i>		G1	<10	0.4
Xanthorrhoeaceae	<i>Chamaescilla corymbosa</i>	0	G1	<2N	0.1

Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M1	<2T	0.4
Zamiaceae	<i>Macrozamia riedlei</i>	0	M1	<2T	0.4


Site		GBQ12				
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	34441.4501	Northing:	103974.4823		
Location: P Road						
Vegetation Type:						
Landform: Mid Slope	Slope: Gentle					Drainage: Good
Soil Colour & Type: Yellow Silty Sand						
Vegetation Condition: Good (4)						
Disturbances: Weeds, clearing for adjacent fire break						
Fire Age & Intensity: Old > 5 yr – few trees killed						
Bare Ground: 11-30% Humus/Litter: Moderate – 31-70%						
Wood Litter: Moderate						

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.05
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Caryophyllaceae	<i>Petrorhagia dubia</i>	*	G1	<2T	0.1
Ericaceae	<i>Leucopogon propinquus</i>		M1	<2T	0.1
Fabaceae	<i>Hardenbergia comptoniana</i>		M1	<2T	0.1
Fabaceae	<i>Trifolium campestre</i>	*	G2	<2N	0.02
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G1	<2N	0.1
Hemerocallidaceae	<i>Tricoryne elatior</i>	0	G2	<2T	0.1
Myrtaceae	<i>Agonis flexuosa</i>	0	U1	30-10	8
Myrtaceae	<i>Eucalyptus marginata</i> subsp. <i>marginata</i>	0	U1	<2T	12
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2N	0.02
Poaceae	<i>Austrostipa campylachne</i>	0	G1	<2T	0.6
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.4
Poaceae	<i>Briza minor</i>	*	G1	<2N	0.1
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.2
Primulaceae	<i>Lysimachia arvensis</i>	*	G2	<2N	0.05
Proteaceae	<i>Banksia attenuata</i>	0	U2	<10	4
Proteaceae	<i>Xylomelum occidentale</i>	0	U2	30-10	4

Site		GBQ13			
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT		
Co-ordinates (PCG94)	Easting:	32045.6283	Northing:	99400.8077	
Location: Lot 3 on Diagram 69286					
Vegetation Type:					
Landform: Mid slope	Drainage: Good				
Slope: Negligible					
Soil Colour & Type: Yellow Silty Sand					
Vegetation Condition: Good (4)					
Disturbances: Weeds, road reserve					
Fire Age & Intensity: Old > 5 yr – no damage					
Bare Ground: <2% Humus/Litter: Plentiful – 31-70%					
Wood Litter: Sparse					


Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apiaceae	<i>Daucus glochidiatus</i>	0	G2	<2T	0.05
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.1
Asparagaceae	<i>Lomandra odora</i>	0	G2	<2T	0.1
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.4
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2N	0.4
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.2
Dasygogonaceae	<i>Dasygogon bromeliifolius</i>		G1	30-10	0.2
Dilleniaceae	<i>Hibbertia cuneiformis</i>	0	M1	<10	1-1.2
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M2	<10	0.3
Ericaceae	<i>Leucopogon propinquus</i>		M2	<2T	0.3
Fabaceae	<i>Acacia applanata</i>	0	M1	<2T	0.8-1
Fabaceae	<i>Hardenbergia comptoniana</i>		M3	<2T	0.1
Fabaceae	<i>Kennedia prostrata</i>		M3	<2T	0.05
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G2	<2T	0.1
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2N	0.4
Myrtaceae	<i>Agonis flexuosa</i>	0	U1	<10	6
Myrtaceae	<i>Corymbia calophylla</i>		U1	<10	6-10
Orchidaceae	<i>Microtis media</i> subsp <i>media</i>	0	G2	<2T	0.1
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G1	<2T	0.2
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2T	0.05
Phyllanthaceae	<i>Poranthera microcephala</i>	0	G2	<2T	0.05
Poaceae	<i>Briza maxima</i>	*	G1	<2T	0.2
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2T	0.4
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-10	5-6
Restionaceae	<i>Desmocladus fascicularis</i>	0	G2	<2N	0.05
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<2T	0.3



Site		GBQ14				
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	31455.4989	Northing:	99208.8529		
Location: Lot 6208 on Plan 18079						
Vegetation Type:						
Landform: Plain	Slope: Negligible	Drainage: Good				
Soil Colour & Type: Grey Silty Sand						
Vegetation Condition: Good (4)						
Disturbances: Weeds, road reserve						
Fire Age & Intensity: Old > 5 yr – few trees killed						
Bare Ground: <2% Humus/Litter: Plentiful – 31-70%						
Wood Litter: Moderate						

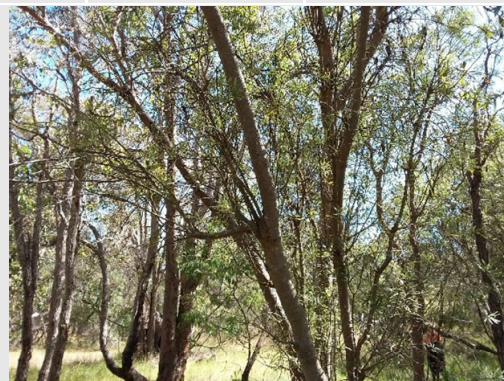
Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apocynaceae	<i>Alyxia buxifolia</i>	0	M2	<2T	0.4
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<10	0.3
Asparagaceae	<i>Lomandra hermaphrodita</i>	0	G1	<2N	0.4
Asparagaceae	<i>Lomandra purpurea</i>		G1	<2T	0.1
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.3
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2T	0.3
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G1	<2T	CLIMB
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2T	0.02
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.4
Cyperaceae	<i>Lepidosperma pubisquameum</i>	0	G1	<2N	0.4
Dilleniaceae	<i>Hibbertia cuneiformis</i>	0	M2	<2T	0.3
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M3	<2T	0.2
Droseraceae	<i>Drosera</i> sp. climbing (nf)	0	G1	<2T	0.1
Ericaceae	<i>Leucopogon propinquus</i>		M2	<2T	0.3
Ericaceae	<i>Petrophile linearis</i>	0	M2	<2T	0.3
Fabaceae	<i>Acacia pulchella</i> var <i>pulchella</i>	0	M2	<2T	0.3
Fabaceae	<i>Acacia applanata</i>	0	M2	<2T	0.2
Fabaceae	<i>Hardenbergia comptoniana</i>		M2	<2T	?
Fabaceae	<i>Jacksonia furcellata</i>	0	M2	<2T	0.4
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G1	<2N	0.3
Iridaceae	<i>Gladiolus caryophyllaceus</i>	*	G1	<2N	0.1
Iridaceae	<i>Ixia</i> sp	*	G1	<2T	0.1
Iridaceae	<i>Orthrosanthus laxus</i> var. <i>laxus</i>	0	G1	<2N	0.3
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2T	0.3
Myrtaceae	<i>Corymbia calophylla</i>		U1	70-30	10
Orchidaceae	<i>Caladenia flava</i> subsp <i>flava</i>		G2	<2T	0.1
Orchidaceae	<i>Lyperanthus serratus</i>	0	G1	<2T	0.4
Orchidaceae	<i>Microtis media</i> subsp <i>media</i>	0	G1	<2T	0.3
Orchidaceae	<i>Pyrorchis nigricans</i>	0	G2	<2N	0.02
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G1	<2T	0.3

Orchidaceae	<i>Thelymitra macrophylla</i>	0	G1	<2T	0.3
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2N	0.02
Pittosporaceae	<i>Billardiera variifolia</i>	0	G1	<2T	0.2
Poaceae	<i>Austrostipa campylachne</i>	0	G1	<2N	0.3
Poaceae	<i>Ehrharta calycina</i>	*	G1	<10	0.4
Proteaceae	<i>Banksia attenuata</i>	0	U2	<10	4
Proteaceae	<i>Banksia grandis</i>	0	M1	<2T	1.2
Proteaceae	<i>Persoonia longifolia</i>	0	M1	<2T	1.4
Rhamnaceae	<i>Spyridium globulosum</i>	0	M1	<2T	1.2
Rutaceae	<i>Philotheca spicata</i>		M2	<2T	0.2
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M2	<2T	0.4
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<2T	2

Site		GBQ15			
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: MT		
Co-ordinates (PCG94)	Easting:	31840.577	Northing:	99277.3784	
Location: Lot 3 on Diagram 69286					
Vegetation Type:					
Landform: Plain Slope: Gentle	Drainage: Good				
Soil Colour & Type: Yellow Silty Sand					
Vegetation Condition: Degraded (6)					
Disturbances: Weeds					
Fire Age & Intensity: Old > 5 yr – few trees killed					
Bare Ground: 11-30% Humus/Litter: Moderate – 31-70%					
Wood Litter: Moderate					


Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Zantedeschia aethiopica</i>	*DP/WoNS	G1	<2T	0.3
Asphodelaceae	<i>Trachyandra divaricata</i>	*	G1	<2T	0.4
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.1
Crassulaceae	<i>Crassula colorata</i> var. <i>colorata</i>	0	G2	<2N	0.02
Crassulaceae	<i>Crassula natans</i> var. <i>minus</i>	*	G2	<2N	0.02
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2N	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>	0	M2	<2T	0.2
Droseraceae	<i>Drosera stolonifera</i>	0	G2	<2T	0.1
Fabaceae	<i>Hardenbergia comptoniana</i>		M3	<2T	0.1
Fabaceae	<i>Kennedia prostrata</i>		M3	<2T	0.05
Fabaceae	<i>Lotus subbiflorus</i>	*	G2	<2N	0.02
Fabaceae	<i>Trifolium campestre</i>	*	G2	<2N	0.05
Haemodoraceae	<i>Conostylis aculeata</i> subsp. <i>preissii</i>	0	G2	<10	0.1
Iridaceae	<i>Ixia</i> sp	*	G2	<2N	0.1
Iridaceae	<i>Moraea flaccida</i>	*	G1	<10	0.4
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.05
Myrtaceae	<i>Corymbia calophylla</i>		U1	30-10	8-10
Orchidaceae	<i>Disa bracteata</i>	*	G2	<2T	0.1
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2N	0.02
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.3
Poaceae	<i>Bromus diandrus</i>	*	G1	<2N	0.4
Poaceae	<i>Ehrharta calycina</i>	*	G1	70-30	0.4
Proteaceae	<i>Banksia attenuata</i>	0	M1	70-30	4-6
Restionaceae	<i>Desmocladius fascicularis</i>	0	G2	<2N	0.05
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M1	<2T	0.5
Zamiaceae	<i>Macrozamia riedlei</i>	0	M1	<2T	0.4

Site		GBQ16			
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: MT		
Co-ordinates (PCG94)	Easting:	31607.279	Northing:	99053.8198	
Location: Lot 3 on Diagram 69286					
Vegetation Type:					
Landform: Plain Slope: Gentle		Drainage: Good			
Soil Colour & Type: Yellow Silty Sand					
Vegetation Condition: Good (4)					
Disturbances: Weeds					
Fire Age & Intensity: Old > 5 yr – few trees killed					
Bare Ground: 2-10% Humus/Litter: Moderate – 31-70%					
Wood Litter: Moderate					




Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Zantedeschia aethiopica</i>	*DP/WoNS	G1	<2T	0.3
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2T	0.3
Asparagaceae	<i>Lomandra hermaphrodita</i>	0	G1	<2T	0.3
Asparagaceae	<i>Lomandra hermaphrodita</i>	0	G1	<2N	0.4
Asparagaceae	<i>Lomandra odora</i>	0	G2	<2T	0.1
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2T	0.4
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G1	<2T	0.1
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.1
Colchicaceae	<i>Burchardia congesta</i>		G1	<2T	0.4
Cyperaceae	<i>Lepidosperma pubisquameum</i>	0	G1	<2T	0.3
Dilleniaceae	<i>Hibbertia cuneiformis</i>	0	M1	<2T	0.4-1.2
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M3	<10	0.3
Dilleniaceae	<i>Hibbertia racemosa</i>		M3	<2T	0.1
Ericaceae	<i>Leucopogon propinquus</i>		M2	<2T	0.2
Fabaceae	<i>Kennedia prostrata</i>		M3	<2T	0.1
Fabaceae	<i>Trifolium campestre</i>	*	G2	<2N	0.05
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G1	<10	0.4
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2N	0.5
Iridaceae	<i>Ixia sp</i>	*	G2	<10	0.2
Iridaceae	<i>Orthrosanthus laxus</i> var. <i>laxus</i>	0	G1	<2T	0.3
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2-	0.3
Myrtaceae	<i>Agonis flexuosa</i>	0	U2	<2T	4
Myrtaceae	<i>Corymbia calophylla</i>		U1	30-10	8-10
Orchidaceae	<i>Microtis media</i> subsp <i>media</i>	0	G2	<2T	0.3
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G2	<2T	0.1
Orchidaceae	<i>Thelymitra macrophylla</i>	0	G2	<2T	0.1
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2N	0.05
Poaceae	<i>Austrostipa campylachne</i>	0	G1	<2T	0.6
Poaceae	<i>Avena barbata</i>	*	G1	<2N	0.4
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.1

Poaceae	<i>Ehrharta calycina</i>	*	G1	<10	0.4-0.8
Proteaceae	<i>Banksia attenuata</i>	0	U2	70-30	6-8
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M1	<2T	0.6

Site		GBQ17			
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: MT		
Co-ordinates (PCG94)	Easting:	31521.3093	Northing:	99001.5251	
Location: Lot 3 on Diagram 69286					
Vegetation Type:					
Landform: Plain Slope: Gentle	Drainage: Good				
Soil Colour & Type: Yellow Silty Sand					
Vegetation Condition: Good (4)					
Disturbances: Weeds					
Fire Age & Intensity: Old > 5 yr – few trees killed					
Bare Ground: 2-10% Humus/Litter: Moderate – 31-70%					
Wood Litter: Moderate					

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apiaceae	<i>Daucus glochidiatus</i>	0	G2	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2T	0.2
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<2N	0.4
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G1	<2T	0.1
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.02
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.05
Colchicaceae	<i>Burchardia congesta</i>		G1	<2T	0.3
Cyperaceae	<i>Schoenus grandiflorus</i>	0	G1	<10	0.3
Dilleniaceae	<i>Hibbertia cuneiformis</i>	0	M2	<2T	0.6
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M3	<2T	0.2
Fabaceae	<i>Kennedia prostrata</i>		G1	<2T	0.05
Fabaceae	<i>Ornithopus compressus</i>	*	G2	<2T	0.02
Fabaceae	<i>Trifolium campestre</i>	*	G2	<2N	0.02
Fabaceae	<i>Trifolium repens</i>	*	G2	<2N	0.02
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G1	<10	0.3
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2T	0.2
Iridaceae	<i>Ixia sp</i>	*	G1	<2T	0.2
Iridaceae	<i>Orthrosanthus laxus</i> var. <i>laxus</i>	0	G1	<2T	0.2
Myrtaceae	<i>Corymbia calophylla</i>		U1	<10	10
Myrtaceae	<i>Kunzea glabrescens</i>	0	M2	<2N	0.5
Orchidaceae	<i>Disa bracteata</i>	*	G2	<2T	0.1
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G1	<2T	0.3
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2N	0.05
Poaceae	<i>Avena barbata</i>	*	G1	<2N	0.4
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.3
Poaceae	<i>Ehrharta calycina</i>	*	G1	<10	0.4
Proteaceae	<i>Banksia attenuata</i>	0	U1	70-30	6-8
Restionaceae	<i>Desmocladius fascicularis</i>	0	G2	<2N	0.05
Restionaceae	<i>Desmocladius flexuosa</i>	0	G1	<2N	0.3
Rhamnaceae	<i>Spyridium globulosum</i>	0	M1	<10	1-2

Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M2	<10	0.6
Zamiaceae	<i>Macrozamia riedlei</i>	0	M3	<2T	0.2

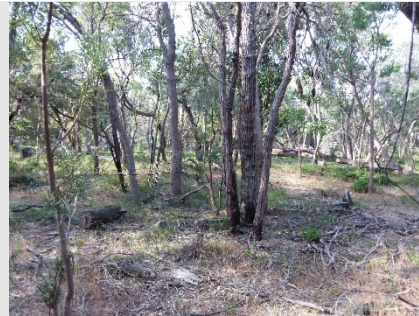
Site		GBQ18			
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: MT		
Co-ordinates (PCG94)	Easting:	31322.9712	Northing:	98931.2642	
Location: Lot 6208 on Plan 18079 (Road reserve)					
Vegetation Type:					
Landform: Plain	Slope: Negligible	Drainage: Good			
Soil Colour & Type: Grey Silty Sand					
Vegetation Condition: Very Good (3)					
Disturbances: Milling, weeds, road reserve, rubbish					
Fire Age & Intensity: Old > 5 yr – few trees killed					
Bare Ground: 2% Humus/Litter: Plentiful – 11-30%					
Wood Litter: Plentiful					

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2N	0.4
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2T	0.2
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<2N	0.4
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2N	0.4
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G2	<2T	0.01
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.02
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.3
Cyperaceae	<i>Lepidosperma pubisquameum</i>	0	G1	<2T	0.4
Cyperaceae	<i>Schoenus grandiflorus</i>	0	G1	<10	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M2	30-10	0.4
Droseraceae	<i>Drosera stolonifera</i>	0	G2	<2T	0.05
Ericaceae	<i>Leucopogon propinquus</i>		M2	<2T	0.3
Fabaceae	<i>Acacia pulchella</i> var. <i>glaberrima</i>		M3	<2T	0.3
Fabaceae	<i>Bossiaea eriocarpa</i>	0	M3	<2T	0.1
Fabaceae	<i>Gompholobium tomentosum</i>	0	M2	<2T	0.3
Fabaceae	<i>Jacksonia furcellata</i>	0	M2	<2T	0.3
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G2	<2N	0.2
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2T	0.4
Iridaceae	<i>Gladiolus caryophyllaceus</i>	*	G1	<2T	0.4
Iridaceae	<i>Ixia sp</i>	*	G2	<2N	0.2
Iridaceae	<i>Orthrosanthus laxus</i> var. <i>laxus</i>	0	G2	<10	0.2
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2T	0.4
Myrtaceae	<i>Corymbia calophylla</i>		U1	30-10	8-10
Orchidaceae	<i>Caladenia flava</i> subsp. <i>flava</i>		G2	<2T	0.2
Orchidaceae	<i>Eriochilus dilatatus</i> (leaf only)	0	G2	<2T	0.2
Orchidaceae	<i>Lyperanthus serratus</i>	0	G2	<2T	0.3
Orchidaceae	<i>Microtis media</i> subsp <i>media</i>	0	G2	<2N	0.3
Orchidaceae	<i>Thelymitra graminea</i>	0	G2	<2T	0.4
Orchidaceae	<i>Thelymitra macrophylla</i>	0	G1	<2T	0.4




Poaceae	<i>Austrostipa campylachne</i>	0	G1	<2T	0.6
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.3
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.4
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-10	6-8
Rhamnaceae	<i>Spyridium globulosum</i>	0	M1	<10	1.6-3
Rubiaceae	<i>Opercularia apiciflora</i>	0	G2	<2T	0.1
Stylidiaceae	<i>Levenhookia pusilla</i>	0	G2	<2N	0.02
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M2	<2T	0.5
Zamiaceae	<i>Macrozamia riedlei</i>	0	M3	<2T	0.3

Site		GBQ19			
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: AB		
Co-ordinates (PCG94)	Easting:	31063.1825	Northing:	98473.2869	
Location: Lot 305 on Plan 37388 (R 23000)					
Vegetation Type: VT1					
Landform: Plain	Slope: Negligible	Drainage: –			
Soil Colour & Type: Brown Loamy Sand					
Vegetation Condition: Good (4)					
Disturbances: Weeds					
Fire Age & Intensity: Old > 5 yr – minor impact					
Bare Ground: – Humus/Litter: Moderate					
Wood Litter: Sparse					



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Asparagaceae	<i>Dichopogon capillipes</i>			<2N	
Asteraceae	<i>Podolepis gracilis</i>			<2N	
Cyperaceae	<i>Lepidosperma</i> sp. (nf)			<2N	
Dilleniaceae	<i>Hibbertia hypericoides</i>			30-10%	
Dilleniaceae	<i>Hibbertia racemosa</i>			<10%	
Fabaceae	<i>Acacia pulchella</i> var. <i>glaberrima</i>			<2T	
Haemodoraceae	<i>Conostylis aculeata</i>			<2N	
Haemodoraceae	<i>Phlebocarya ciliata</i>			<10%	
Iridaceae	<i>Patersonia occidentalis</i>			<2N	
Loranthaceae	<i>Nuytsia floribunda</i>			<10%	10
Myrtaceae	<i>Corymbia calophylla</i>			<2T	20
Myrtaceae	<i>Eucalyptus marginata</i> subsp. <i>marginata</i>			30-10%	20
Phytolaccaceae	<i>Phyllanthus calycinus</i>			<2N	
Poaceae	<i>Austrostipa flavescens</i>			<2N	
Poaceae	<i>Briza maxima</i>	*		<10%	
Proteaceae	<i>Banksia attenuata</i>			30-10%	15
Proteaceae	<i>Banksia grandis</i>			<10%	10
Proteaceae	<i>Xylomelum occidentale</i>			<10%	10
Restionaceae	<i>Desmocladius fascicularis</i>			<2N	
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>			<10%	
Zamiaceae	<i>Macrozamia riedlei</i>			30-10%	

Site		GBQ20			
Type: Quadrat	Size: 10 x 10	Date: 1/11/2018	Described by: AB		
Co-ordinates (PCG94)	Easting:	34713.6684	Northing:	100618.3735	
Location: Lot 155 on Plan 232768					
Vegetation Type: VT2					
Landform: Plain Slope: Negligible	Drainage: Good				
Soil Colour & Type: Brown Sand					
Vegetation Condition: Degraded (6)					
Disturbances: –					
Fire Age & Intensity: Old > 5 yr – minor impact					
Bare Ground: – Humus/Litter: Moderate					
Wood Litter: Moderate					

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apiaceae	<i>Xanthosia huegelii</i>	0		<2T	0.2
Asparagaceae	<i>Lomandra ?odora</i>	0		<2T	0.3
Asparagaceae	<i>Lomandra caespitosa</i>	0		<2T	0.3
Asparagaceae	<i>Lomandra sericea</i>	0		<2T	0.3
Asteraceae	<i>Hypochaeris glabra</i>	*		<2N	0.1
Asteraceae	<i>Lagenophora huegelii</i>	0		<2T	0.1
Cyperaceae	<i>Lepidosperma pubisquameum</i>	0		<2N	0.3
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0		<2N	0.3
Fabaceae	<i>Acacia pulchella</i> var. <i>glaberrima</i>			<2N	0.3
Fabaceae	<i>Bossiaea eriocarpa</i>			<2T	0.3
Fabaceae	<i>Gompholobium tomentosum</i>			<2T	0.3
Fabaceae	<i>Hardenbergia comptoniana</i>			<2T	cr
Fabaceae	<i>Jacksonia furcellata</i>	0		<2N	1.5
Fabaceae	<i>Kennedia prostrata</i>			<2T	cr
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0		<2T	0.3
Iridaceae	<i>Romulea rosea</i> var. <i>communis</i>	*		<2T	0.1
Myrtaceae	<i>Agonis flexuosa</i>	0		<10%	5
Myrtaceae	<i>Hypocalymma robustum</i>	0		<2T	0.3
Poaceae	<i>Austrostipa semibarbata</i>	0		<2T	0.3
Poaceae	<i>Briza maxima</i>	*		<10%	0.3
Poaceae	<i>Ehrharta calycina</i>	*		<2N	0.3
Poaceae	<i>Rytidosperma occidentale</i>	0		<2T	0.3
Proteaceae	<i>Banksia attenuata</i>	0		30-10%	15
Proteaceae	<i>Banksia ilicifolia</i>	0		30-10%	15
Proteaceae	<i>Petrophile linearis</i>	0		<2T	0.3
Restionaceae	<i>Desmocladus fascicularis</i>	0		<2N	0.3
Restionaceae	<i>Hypolaena exsulca</i>	0		<2T	0.2
Stylidiaceae	<i>Stylidium brunonianum</i>	0		<2T	0.3
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0		<2T	0.3

## 2 PHOTOGRAPHIC REFERENCE POINTS

Site Assessments on 30/10/2018, 31/10/2018 and 1/11/2018

PPGB01



PPGB02



PPGB03



PPGB04



PPGB05



PPGB06



PPGB07



PPGB08



PPGB09



PPGB10



PPGB11



PPGB12



PPGB13



PPGB14



PPGB15



PPGB16



PPGB18



PPGB19



PPGB20



PPGB21



PPGB22



PPGB23



PPGB24



PPGB25



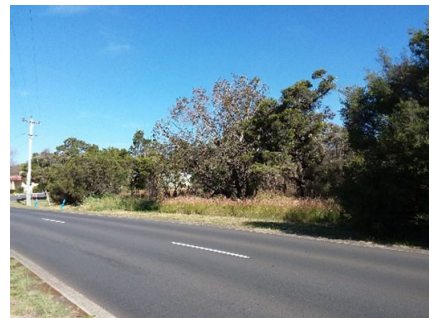
PPGB26



PPGB27



PPGB28



PPGB29

PPGB29

PPGB30