

References

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Appendix One: Native Flora Inventory

Bull Creek Wetlands Management Plan 2004 - 2009

Scientific Name	Common Name
<i>Acacia pulchella</i>	Prickly Moses
<i>Acacia saligna</i>	Orange Wattle
<i>Acacia stenoptera</i>	Narrow Winged Wattle
<i>Acacia willdenowiana</i>	Grass Wattle
<i>Adenanthos cygnorum</i>	Woolly Bush
<i>Adenanthos obovata</i>	Basket Bush
<i>Agonis linearifolia</i>	Swamp Peppermint
<i>Allocasuarina fraseriana</i>	Sheoak
<i>Allocasuarina humilis</i>	Dwarf Sheoak
<i>Allocasuarina obesa</i>	Swamp Sheoak
<i>Anigozanthos bicolor</i>	Little Kangaroo Paw
<i>Anigozanthos humilis</i>	Cats Paw
<i>Anigozanthos manglesii</i>	Kangaroo Paw
<i>Aotus cordifolia</i>	
<i>Aotus procumbens</i>	
<i>Astartea fascicularis</i>	
<i>Banksia attenuata</i>	Slender Banksia
<i>Banksia ilicifolia</i>	Holly Leaf Banksia
<i>Banksia menziesii</i>	Firewood Banksia
<i>Baumea articulata</i>	Jointed Rush
<i>Baumea juncea</i>	Bare Twigrush
<i>Boronia crenulata</i>	Aniseed Boronia
<i>Bossiaea eriocarpa</i>	Common Brown Pea
<i>Brachyloma preissii</i>	Globe Heath
<i>Burchardia umbellata</i>	Milkmaids
<i>Burnettia nigricans</i>	
<i>Caladenia discoidea</i>	Dancing Orchid
<i>Caladenia flava</i>	Cowslip Orchid
<i>Caladenia longicauda</i>	White Spider Orchid
<i>Caladenia paludosa</i>	Swamp Spider Orchid
<i>Calytrix flavescens</i>	Summer Star Flower
<i>Cartonema philydroides</i>	
<i>Cassytha racemosa</i>	Dodder
<i>Centella asiatica</i>	Centella
<i>Centella cordifolia</i>	Centella
<i>Chamaescilla corymbosa</i>	Blue Squill
<i>Conostylis aculeata</i>	Prickly Conostylis
<i>Conostylis juncea</i>	
<i>Conostylis setigera</i>	Bristly Cottonhead
<i>Corymbia calophylla</i>	Marri
<i>Corynotheca micrantha</i>	Sand Lily
<i>Cyathochaeta avenacea</i>	
<i>Dampiera linearis</i>	Common Dampiera
<i>Dasypogon bromeliifolius</i>	Pineapple Bush
<i>Daviesia physodes</i>	
<i>Dianella revoluta</i>	Blueberry Lily

Scientific Name	Common Name
<i>Diuris corymbosa</i>	Common Donkey Orchid
<i>Drosera erythrorhiza</i>	Sundew
<i>Drosera glanduligera</i>	Sundew
<i>Drosera macrantha</i>	Sundew
<i>Drosera menziesii</i>	Sundew
<i>Drosera pallida</i>	Sundew
<i>Elythranthera brunonis</i>	Purple Enamel Orchid
<i>Epilobium billardioreanum</i>	Glabrous Willow Herb
<i>Eriochilus scaber</i>	Bunny Orchid
<i>Eucalyptus marginata</i>	Jarrah
<i>Eucalyptus rudis</i>	Flooded Gum
<i>Eucalyptus tottiana</i>	Prickle Bark
<i>Gahnia trifida</i>	Coastal Sword Sedge
<i>Gnaphalium</i> sp.	
<i>Gompholobium aristatum</i>	
<i>Gompholobium tomentosum</i>	Hairy Yellow Pea
<i>Gonocarpus pithyoides</i>	
<i>Haemodorum spicatum</i>	Mardja
<i>Haloragis</i> sp.	
<i>Hardenbergia comptoniana</i>	Native Wisteria
<i>Hemiandra pungens</i>	Snake Bush
<i>Hibbertia hypericoides</i>	Native Buttercup
<i>Hovea trisperma</i>	Common Hovea
<i>Hybanthus calycinus</i>	Wild Violet
<i>Hypocalymma angustifolium</i>	White Myrtle
<i>Hypolaena exsulca</i>	
<i>Isotropis cuneifolia</i>	Granny Bonnets
<i>Jacksonia furcellata</i>	Grey Stinkwood
<i>Jacksonia sternbergiana</i>	Stinkwood
<i>Juncus kraussii</i>	Sea Rush
<i>Juncus pallidus</i>	Pale Rush
<i>Kennedia prostrata</i>	Running Postman
<i>Kunzea ericifolia</i>	Spearwood
<i>Lagenifera huegelii</i>	Coarse Lagenifera
<i>Laxmannia grandiflora</i>	
<i>Laxmannia squarrosa</i>	
<i>Lepidosperma angustatum</i>	
<i>Lepidosperma longitudinale</i>	Pithy Sword Sedge
<i>Leptocarpus</i> sp.	Rush
<i>Lepyrodia muiirii</i>	
<i>Leucopogon conostephioides</i>	Bearded Heath
<i>Lomandra odora</i>	Tiered Mat Rush
<i>Lomandra preissii</i>	Mat Rush
<i>Loxocarya flexuosa</i>	
<i>Luzula meridionalis</i>	Field Woodrush
<i>Lyginia barbata</i>	
<i>Lysinema ciliatum</i>	Curry Flower
<i>Macrozamia riedlei</i>	Zamia
<i>Melaleuca preissiana</i>	Moonah
<i>Melaleuca raphiophylla</i>	Swamp Paperbark
<i>Melaleuca thymoides</i>	
<i>Mesomelaena pseudostygia</i>	
<i>Microtis media</i>	Tall Mignonette Orchid
<i>Nemcia capitata</i>	Bacon and Eggs
<i>Nuytsia floribunda</i>	Christmas Tree

Scientific Name	Common Name
<i>Opercularia vaginata</i>	Dog Weed
<i>Oxylobium lineare</i>	Narrow-Leaved Oxylobium
<i>Paraserianthes lophantha</i>	Albizia
<i>Patersonia occidentalis</i>	Purple Flag
<i>Pericalymma ellipticum</i>	Swamp Teatree
<i>Persicaria decipiens</i>	
<i>Persoonia saccata</i>	Snottygobble
<i>Petrophile linearis</i>	Pixie Mops
<i>Philothea spicata</i>	Salt and Pepper
<i>Phlebocarya ciliata</i>	
<i>Pimelea rosea</i>	Rose Banjine
<i>Platysace compressa</i>	Tapeworm Plant
<i>Prasophyllum macrostachyum</i>	
<i>Pteridium esculentum</i>	Bracken
<i>Pterostylis vittata</i>	Banded Greenhood Orchid
<i>Scaevola canescens</i>	Grey Scaevola
<i>Scaevola paludosa</i>	
<i>Schoenus curvifolius</i>	Bog Rush
<i>Schoenus grandiflorus</i>	Large Flowered Bog Rush
<i>Schoenus rodwayanus</i>	Bog Rush
<i>Scholtzia involucrata</i>	Spiked Scholtzia
<i>Scirpus inundatus</i>	Water Sedge
<i>Sowerbaea laxiflora</i>	Purple Tassels
<i>Sporobolus virginicus</i>	Marine Couch
<i>Stirlingia latifolia</i>	Blue Boy
<i>Stylidium brunonianum</i>	Pink Fountain Triggerplant
<i>Stylidium pilulifera</i>	Common Butterfly Triggerplant
<i>Stylidium schoenoides</i>	Cow Kicks
<i>Thysananthus multiflorus</i>	Many-flowered Fringed Lily
<i>Thysananthus sparteus</i>	Fringed Lily
<i>Thysanotus manglesianus</i>	Fringed Lily
<i>Typha domingensis</i>	Bulrush
<i>Viminaria juncea</i>	Swishbush
<i>Xanthorrhoea preissii</i>	Grass Tree
<i>Xanthosia sp.</i>	

Appendix Two: Weed Inventory

Bull Creek Wetlands Management Plan 2004 -2009

Scientific Name	Common Name
<i>Acacia longifolia</i>	Sydney Golden Wattle
<i>Arctotheca calendula</i>	Capeweed
<i>Arundo donax</i>	Spanish reed
<i>Avena barbata</i>	Wild Oats
<i>Brachychiton populneus</i>	Brachychiton
<i>Briza maxima</i>	Blowfly Grass
<i>Briza minor</i>	Shivery Grass
<i>Carpobrotus edulis</i>	Pigface
<i>Casuarina cunninghamiana</i>	River Oak
<i>Chamelaucium uncinatum</i>	Geraldton Wax
<i>Cirsium vulgare</i>	
<i>Conyza bonariensis</i>	Fleabane
<i>Cortaderia selloana</i>	Pampas Grass
<i>Cyperus ?polystachyos</i>	Bunchy Sedge
<i>Cyperus papyrus</i>	Papyrus
<i>Cyperus tenuiflorus</i>	Scaly Sedge
<i>Ehrharta calycina</i>	Perennial Veldt Grass
<i>Ehrharta longifolia</i>	Annual Veldt Grass
<i>Eragrostis curvula</i>	African Lovegrass
<i>Erodium botrys</i>	Long Storksbill
<i>Eucalyptus camaldulensis</i>	River Gum
<i>Eucalyptus citriodora</i>	Lemon Scented Gum
<i>Eucalyptus conferruminata</i>	Bald Island Marlock
<i>Eucalyptus robusta</i>	Swamp Mahogany
<i>Ficus carica</i>	Edible Fig
<i>Freesia sp.</i>	Freesia
<i>Fumaria sp.</i>	Fumitory
<i>Gladiolus caryophyllaceous</i>	Wild Gladiolus
<i>Holcus lanatus</i>	
<i>Homeria flaccida</i>	Cape Tulip
<i>Hypochaeris glabra</i>	Flat Weed
<i>Lactuca serriola</i>	
<i>Lantana camara</i>	Common Lantana
<i>Leptospermum laevigatum</i>	Victorian Tea Tree
<i>Lotus sp.</i>	
<i>Lupinus cosentinii</i>	Blue Lupin
<i>Melaleuca nesophila</i>	Showy Honey Myrtle
<i>Melaleuca quinquenervia</i>	Broad-leaf Paperbark
<i>Oenothera sp.</i>	Evening Primrose
<i>Olea europaea</i>	Olive
<i>Oxalis pes-caprae</i>	Soursob
<i>Papyrus sp.</i>	Nile Plant
<i>Paspalum dilatatum</i>	Paspalum
<i>Paspalum distichum</i>	Water Couch
<i>Pelargonium capitatum</i>	Pelargonium
<i>Pennisetum clandestinum</i>	Kikuyu
<i>Petrorhagia velutina</i>	Velvet Pink

Scientific Name	Common Name
<i>Plantago lanceolata</i>	Ribwort Plantain
<i>Populus species</i>	Poplar
<i>Raphanus raphanistrum</i>	Wild Radish
<i>Ricinus communis</i>	Castor Oil Plant
<i>Romulea rosea</i>	Guildford Grass
<i>Rubus fruticosus</i>	Blackberry
<i>Rumex crispus</i>	Curled Dock
<i>Sapium sebiferum</i>	Chinese Tallow Tree
<i>Schinus terebinthifolia</i>	Japanese Peppertree
<i>Solanum nigrum</i>	Black Nightshade
<i>Sonchus oleraceus</i>	Common Sawthistle
<i>Stenotaphrum secundatum</i>	Buffalo Grass
<i>Typha orientalis</i>	Bulrush
<i>Ursinia anthemoides</i>	Ursinia
<i>Vicia sativa</i>	Purple vetch
<i>Watsonia sp.</i>	Watsonia
<i>Zantedeschia aethiopica</i>	Arum Lily

Fantails

Rhipidura fuliginosa

Grey Fantail

Rhipidura leucophrys

Willie Wagtail

Flycatchers

Pachycephala rufiventris

Rufus Whistler

Hérons

Ardea novae-hollandiae

White Faced heron

Honeyeaters

Anthochaera carunculata

Red Wattlebird

Anthochaera chrysoptera

Little Wattlebird

Lichenostomus virescens

Singing Honeyeater

Lichmera indistincta

Brown Honeyeater

Phylidonyris melanops

Tawny Crowned Honeyeater

Ibis

Threskiornis aethiopica

Scared Ibis

Kingfishers

Dacelo gigas

Laughing Kookaburra

Halcyon sancta

Sacred Kingfisher

Magpie Lark

Grallina cyanoleuca

Australia Magpie-Lark

Pardalotes

Pardalotus striatus

Striated Pardolote

Rails

Porphyrio porphyrio

Purple Swamphen

Rallus philippensis

Buff Banded Rail

Silvereyes

Zosterops lateralis

Grey Breasted Silvereye

Swallows

Hirundo neoxena

Welcolme Swallow

Petrochelidon nigricans

Tree Martin

Thornbills

Acanthiza apicalis

Broad Tailed Thornbill

Acanthiza chrysorrhoa

Yellow Rumped Thornbill

Acanthiza inornata

Western Thornbill

Fairy Wrens

Malurus spendens

Splendid Fairy Wren

Reptiles

<i>Aprasia repens</i> [^]	
<i>Bassia trilineata</i> [^]	
<i>Cryptoblepharus plagiocephalus</i>	
<i>Ctenotus impar</i> [^]	
<i>Ctenotus lesueurii</i> [^]	
<i>Delma fraseri</i> [^]	
<i>Delma grayii</i> [^]	
<i>Egernia luctuosa</i>	Mourning Skink
<i>Eternotus lesuerii</i>	
<i>Hemiergis quadrilineata</i> [^]	Striped Skink
<i>Leiopisma trileanata</i>	
<i>Lerista elegans</i> [^]	
<i>Lialis burtonis</i>	Burton's Snake-lizard
<i>Menetia greyii</i>	
<i>Morethia lineocellata</i> [^]	
<i>Morethia obscura</i>	
<i>Notechis scutatus</i>	Western Tiger Snake
<i>Phyllodactylus marmoratus</i> [^]	
<i>Pletholax gracilis</i> [^]	
<i>Pogona minor</i> [^]	
<i>Pygopus lepidopodus</i> [^]	
<i>Pseudonaja affinis</i>	
<i>Ramphitoplops waitii</i> [^]	Dugite
<i>Tiliqua rugosa</i>	Bobtail Skink
<i>Tympanocryptis adelaidensis</i> [^]	

([^] recorded in Rossmoyne & Willetton but not in Wetland by B. Maryan & D. Robinson)

Frogs (Smith, 1987)

<i>Heleioporus eyrei</i>	Moaning Frog
<i>Limnodynastes dorsalis</i>	Banjo Frog
<i>Litoria adelaidensis</i>	Slender tree Frog
<i>Litoria moorei</i>	Western Bell Frog
<i>Ranidella insignifera</i>	

Appendix Four: Water Quality Monitoring

Bull Creek Wetlands Management Plan 2004 - 2009

Key

Type (U/F) = Filtered / Unfiltered

Temp = Water Temperature

TDS = Total Dissolved Solids

Cond = Conductivity

DO = Dissolved Oxygen

DO (%) = % Dissolved Oxygen

BOD = Biological Oxygen Demand

Phy = Phaeophytin

Chl A = Chlorophyll A

Col = Colour

Turb = Turbidity

Fe = Iron

TP = Total Phosphorous

PO₄-P = Phosphate : Phosphorous Ratio

P (Org) = Organic Phosphorous

Kj-N =

NO₂ / NO₃ =

NH₄-N =

N (Total) = Total Nitrogen

Pb = Lead

Cl = Chloride

Cd = Cadmium

Cr = Chromium

Co = Cobalt

Cu = Copper

Hg = Mercury

Ni = Nickel

Zn = Zinc

As = Arsenic

Bateman Park

Type	Date	pH	Temp	TDS	Cond	DO	DO (%)	BOD	Phy	Chl A	Col	Turb	Fe	TP	PO ₄ -P	P (Org)	Kj-N	NO ₂ /NO ₃	NH ₄ -N	N (Total)	Pb	Cl	Cd	Cr	Co	Cu	Hg	Ni	Zn	As	
U	20/06/79	6.9	18.0			7.4	77	<20.0		0.00	120	4.2		0.03	0		0.000	0.150	0.100	0.150	0.006	131	<0.0005	0.001	<0.002	0.006	<0.000 ₂	<0.002 ₀	0.060		
U	19/09/79	6.8	18.2			7.1	74	<20.0		0.00	120	16		0.040	0		0.000	0.150	0.130	0.150	0.004	86	<0.0005	0.001	0.002	0.004	<0.000 ₂	0.0020	0.050		
U	12/12/79	6.4	27.0			5.4	67	<2.0		0.00	15	60		0.020	102			0.080	0.560	0.004	97	<0.0005	<0.001	0.006	0.002	<0.000 ₂	0.0040	0.020			
U	08/10/80	3.3	18.0			3.8	40	4.4			76	68		0.030				0.160	0.440			87									
U	14/01/81	3.2	19.6			6.3	68	<2.0			19	120		0.030	<0.010		0.870	0.170	0.780	1.040		82									
U	29/04/81	3.4	18.8			5.6	59	<2.0			13	130		0.080	<0.010		1.000	0.060	0.400	1.060		86									
U	01/07/81	3.2	15.0			4.1	40	<2.0			14	130		0.030	<0.010		0.720	0.220	0.550	0.940		75									
U	11/11/81	3.1	20.1			3.8	41	2.0			9	120		0.030	<0.010		0.480	0.190	0.350	0.670		79									
U	10/02/82	2.9	23.0			2.3	26	<2.0			15	130		0.020	<0.010		0.580	0.140	0.560	0.720		80									
U	19/05/82	3.2	16.5			4.0	40	<2.0			15	>150		0.030	<0.010		0.360	0.080	0.210	0.440		78									
U	22/09/82	3.2	17.0			5.8	59	2.0			18	110		0.030	<0.010		0.630	0.230	0.280	0.860		121									
U	12/01/83	3.2	20.6			4.8	53	<2.0			<5	115		0.010	<0.010		0.850	0.040	0.420	0.890		82									
U	20/04/83	3.4	19.5			6.9	74	<2.0			6	71		0.020	0.010		0.660	0.020	0.450	0.680		82									
U	13/07/83	3.5	16.2			6.5	65	<2.0			11	97		0.030	<0.010		0.550	0.280	0.310	0.830		80									
U	19/10/83	3.3	20.2			6.3	69	<2.0			16	91		0.030	<0.010		0.530	0.190	0.300	0.720		75									
U	01/02/84	3.4	22.5			5.1	58	<2.0			<5	59		0.030	<0.010		1.900	0.030	0.400	1.930		82									
U	16/05/84	4.6	18.0			7.3	76	<2.0			120	26		0.060	<0.010		0.270	0.070	0.120	0.340		34									
U	29/08/84	4.0	14.0			7.1	68	<2.0			47	58		0.080	<0.010		0.970	0.160	0.260	1.130		66									
U	28/11/84	3.9	20.2			6.1	66	<20.0		0.00	12	59		0.040	<0.010		0.710	0.080	0.390	0.790	0.000	82	0.0000	0.000	0.000	0.0000	0.0000	0.0000	0.000		
U	27/03/85	3.6	21.0			6.8	76	<200.0			<5	56		0.010	<0.010		0.670	0.020	0.420	0.690		84									
U	23/10/85	3.8	18.0			6.5	68	<200.0			5	66		0.010	<0.010		0.710	0.090	0.330	0.800		825									
U	07/11/95		24.3			5.9	68				2.95	23	3.3	16	9	7	642	160	159		5		1	5		5	.5	5	27	5	
U	14/11/96	6.0	21	340	531	7.8	75						3.25	510	544	>10	5300	>200			110		>1	>1		>1	>0.1	>1	>1	3	
U	17/03/97	7.0	21.1	345	540	7.6	86.2					2	3.67	50			<200	1.6			<1		<1	3		<10	<1	<1	<1	2	
U	29/09/98	6.6		340	530	8.4						12	1.65	0.35	0.32	0.03	0.50	<1 / <0.1			<1		<1	<0.01		<0.01	<0.1	0.03	<0.05	1	
F	26/03/99	6.7	24.0	480	749	10						10	1.32	0.25	0.21	0.04	0.84	1.00 / <0.01			<1		<1	<0.01		<0.01	<0.1	<0.01	<0.05	<1	
F	23/09/99	6.4	18.5	310	487	7.8						11	<0.01	0.14	0.08	0.06	1.24	1.40 / <0.01			<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	<1	
F	28/03/00	7.1	18.7	435	680	6.6						26	2.51	0.04	0.04	<0.01	0.4	1.65 / <0.01			<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	4	
F	04/10/00	7.4		350	550	6.3	0.1					11				0.02					<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	4	
F	13/10/00	7.4	23.3	350		6.3					550	11	<0.01	0.02	<0.01	0.02		0.3 / <0.01			<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	4	
F	05/06/01		6.60	59								3		0.06	0.02	0.04		0.2			46		1	0.01		0.02	0.1	<0.01	0.1	<1	

Appendix Four

Type	Date	pH	Temp	TDS	Cond	DO	DO (%)	BOD	Phy	Chl A	Col	Turb	Fe	TP	PO ₄ -P	P (Org)	K _i -N	NO ₂ /NO ₃	NH ₄ -N	N (Total)	Pb	Cl	Cd	Cr	Co	Cu	Hg	Ni	Zn	As
F	19/11/01											18	2.7	0.08	<0.01	0.08					<1		<1	<0.01		7	<0.1	0.01	<0.01	2
F	19/03/02	6.9	26.5	810	1200	4.7						20	1.1	0.18	0.01	0.17		0.3			<1		<1	<0.01		0.08	<0.1	<0.01	<0.01	5
F	10/09/02	7.1		380	590	6.5						18	2.7	0.02	<0.01	0.02		<0.1			<0.001		<0.001	<0.01		0.01	<0.000 ₁	<0.01	<0.01	0.003
F	11/03/03	6.5	28.3	8700		8.9						27		1.1	<0.01	1.1		0.6			<5		<5	<0.01		<0.01	<0.1	<0.01	<0.01	<5

Bull Creek (Backwater)

Type	Date	pH	Temp	TDS	Cond	DO	DO (%)	BOD	Phy	Chl	Col	Turb	Fe	TP	PO ₄ -P	P (Org)	Kj-N	NO ₂ /NO ₃	NH ₄ -N	N (Total)	Pb	Cl	Cd	Cr	Co	Cu	Hg	Ni	Zn	As
F	12/03/98	6.9	19.4	305	471	5.7						6	0.49	0.11	0.36	<0.01	0.26	<1 / <0.1			<1		1	1		<0.01	<0.001	0.01	<0.05	1
F	25/09/98	7.3		340	530	7.1						2	0.29		950	<10	500	<1100			<1		<1	<10		<10	<0.1	<10	<50	<1
F	29/09/98	7.3		340	530	7.1						2	0.29	0.95	0.95	<0.01	0.50	<1 / <0.1			<1		<1	<0.01		<0.01	<0.1	<0.01	<0.05	<1
F	26/03/99	6.8	20.3	345	537	11						2	0.24	0.09	0.09	<0.01	0.15	1.00 / <0.01			<1		<1	0.05		<0.01	<0.1	<0.01	<0.05	<1
F	23/09/99	6.7	17.5	355	553	8.1						4	0.30	0.11	0.08	0.03	1.29	1.96 / <0.01			<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	<1
F	28/03/00	6.7	17.3	355	550	6.2						7	0.42	0.04	<0.01	0.04	0.39	1.91/0.06			<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	<1
F	4/10/00	7.2		370	570	3.2	0.1					6	00.05	0.04		0.03		2.8			<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	<1
F	13/10/00	7.2	20.5	370	570	3.2						6	0.05	0.04	0.01	0.03		<0.01 / 2.8			<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	<1
F	5/06/01	8.5			210							4		0.02	0.01	0.01		1.5			4		<1	<0.01		<0.01	<0.1	<0.01	0.03	<1
F	19/11/01											3	0.26	0.24	<0.01	0.24		0.6			<1		<1	<0.01		1	<0.1	<0.01	<0.01	<1
F	19/03/02	7.0	21.7	390	580	6.2						7	1.5	0.02	<0.01	0.02		0.5			<1		<1	<0.01		0.01	<0.1	<0.01	<0.01	<1
F	10/09/02	7.0		400	620	5.8						6	0.55	0.01	<0.01	0.01		4.5			<0.001		<0.001	<0.01		0.02	0.0001	<0.01	<0.01	0.001
F	11/03/03	6.8	24.5	375		7.8						6	0.51	1.0	<0.01	1.0		<0.1			<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	<1

Bull Creek Park

Type	Date	pH	Temp	TDS	Cond	DO	DO (%)	BOD	Phy	Chl	Col	Turb	Fe	TP	PO ₄ -P	P (Org)	Kj-N	NO ₂ /NO ₃	NH ₄ -N	N (Total)	Pb	Cl	Cd	Cr	Co	Cu	Hg	Ni	Zn	As	
U	21/03/79	6.8	18.5			6.0	63.	20.0		0.00	91.	3.4		0.030	0.000		0.000	0.590	0.070	0.590	0.004	69.	<0.0005	0.001	<0.002	0.002	<0.000	0.0020	0.075		
U	20/06/79	6.7	18.5			6.1	64.	<20.0		0.00	140.	33		0.040	0.000		0.000	0.690	0.140	0.690	<0.004	67.	<0.0005	<0.001	<0.002	0.006	<0.000	<0.002	0.190		
U	19/09/79	6.8	16.8			5.0	51.	<20.0		0.00	140.	6.5		0.040	0.000		0.000	1.000	0.200	1.000	0.004	72.	<0.0005	<0.001	<0.002	0.004	<0.000	<0.002	0.030		
U	12/12/79	6.9	20.5			6.6	72.	2.0		0.00	120.	5.4		0.020				0.950	0.030		0.004	81.	<0.0005	0.001	<0.002	0.002	<0.002	<0.002	0.010		
U	19/03/80	7.8	20.0			6.3	67.	<2.0		0.00	72.	13		0.050				0.340	0.060		<0.004	68.	<0.0005	0.001	<0.002	0.003	<0.000	<0.002	0.010		
U	11/06/80	6.7	13.7			6.7	64.	2.3			120.	5.1		0.030				0.960	0.150			73.									
U	8/10/80	6.7	16.5			4.9	50.	<2.0			490.	11		0.040				1.100	0.070			96.									
U	14/01/81	7.0	18.8			5.3	56.	<2.0		110.	3.1	3.1		0.030	<0.010		0.690	0.800	<0.020	1.490		73.									
U	29/04/81	6.8	17.1			6.7	69.	<2.0		120.	3.5	3.5		0.030	0.010		0.810	0.420	0.120	1.230		74.									
U	11/07/81	6.7	14.6			6.3	61.	<2.0		120.	5.5	5.5		0.080	0.010		0.900	0.920	0.180	1.820		72.									
U	11/11/81	6.9	18.7			5.0	53.	<2.0		110.	2.7	2.7		0.040	<0.010		0.440	0.740	0.050	1.180		73.									
U	10/02/82	7.0	24.4			5.4	64.	<2.0		85.	3.1	3.1		0.010	<0.010		0.460	0.660	0.040	1.120		78.									
U	19/05/82	7.2	14.6			7.0	68.	<2.0		110.	2.8	2.8		0.040	<0.010		0.210	0.550	0.070	0.760		69.									
U	22/09/82	7.1	16.9			6.0	61.	<2.0		110.	2.1	2.1		0.020	0.010		0.720	0.900	0.090	1.620		67.									

Appendix Four

Type	Date	pH	Temp	TDS	Cond	DO	DO (%)	BOD	Phy	Chl	Col	Turb	Fe	TP	PO4-P	P (Org)	Kj-N	NO2/NO3	NH4-N	N (Total)	Pb	Cl	Cd	Cr	Co	Cu	Hg	Ni	Zn	As	
U	12/01/83	7.2	19.0			5.8	62.	<2.0			81.	4.1		0.010	<0.010		0.600	0.460	0.060	1.060		74.									
U	20/04/83	7.0	17.7			6.7	69.	2.0			82.	3.2		0.020	0.010		0.550	0.270	0.040	0.820		74.									
U	13/07/83	7.1	16.2			6.1	61.	<2.0			130.	4.5		0.040	0.010		0.540	0.950	0.140	1.490		73.									
U	19/10/83	6.9	19.1			6.0	64.	<2.0			80.	56		0.070	0.010		0.630	0.810	0.080	1.440		73.									
U	1/02/84	6.9	20.2			6.2	68.	2.0			71.	4.9		0.030	0.010		0.540	0.420	0.080	0.960		76.									
U	16/05/84	7.0	17.5			7.5	77.	<2.0			38.	4.5		0.050	<0.010		0.220	0.040	0.030	0.260		15.									
U	29/08/84	6.8	14.0			7.5	72.	<2.0			110.	2.5		0.040	0.010		0.600	0.700	0.180	1.300		63.									
U	28/11/84	7.0	19.2			6.5	69.	<20.0		0.00	110.	31		0.080	0.010		0.470	0.510	0.140	0.980	0.000	76.	0.0000	0.000	0.000	0.0000	0.0000	0.000			
U	27/03/85	8.3	19.9			6.7	73.	<200.0			100.	5.9		0.010	<0.010		0.500	0.250	0.040	0.750		79.									
U	23/10/85	7.7	17.0			6.9	71.	<200.0			90.	2.6		0.020	0.010		0.440	0.740	0.060			79.									
U	7/11/95		20.7			6.1	55				4.7	4.72	1.3	25	14	11	1049	110	634												
U	14/11/96	6.7	21	335	519	5.8	21					>1	0.77	70	68	>10	4000	>200													
U	17/03/97	7.3	17.8	310	479	8.2	82.1					2	0.63	160			1000	1.8													
U	7/11/95		20.6			5.5	58				5.11	6.3	.44	16	10	6	1022	415	139												
U	14/11/96	6.8	20	325	507	6.6	43					>1	0.61	80	85	>10	7600	>200													
U	17/03/97	6.9	19.3	295	455	6.2	68.3					1	0.83	100			1300	1.4													
F	12/03/98	6.1	21.8	300	469	5.8						1	1.13	0.17	0.51	<0.01	0.63	<1/ <0.1													
F	25/09/98	6.2		345	540	5.4						3	0.58		300	<10	300	<110													
F	29/09/98	6.2		345	540	5.4						3	0.58	0.30	0.03	<0.01	0.03	<1/ <0.1													
F	26/03/99	6.4	23.2	355	555	8.6						4	0.41	0.13	0.11	0.01	0.11	0.80/ <0.01													
F	23/09/99	6.3	20.4	370	578	6.2						4	0.71	0.10	0.08	0.02	1.58	0.95/ <0.01													
F	28/03/00	6.0	18.8	365	570	4.7						9	0.66	0.03	<0.01	0.03	0.98	1.39/ <0.01													
F	13/10/00	6.8	21.0	400	620	4.2						7	3.4	0.37	0.27	0.1		<0.01/ 0.8													
F	5/06/01	6.2		300								6		0.02	0.01	0.01		0.4													
F	19/11/01											5	1.04	0.02	<0.01	0.02		1													
F	19/03/02	6.5	24.9	400	610	3.9						20	1.2	0.17	0.01	0.16		0.2													
F	10/09/02	6.5		430	670	4.2						6.3	1.2	0.02	<0.01	0.02		<0.1													
F	11/03/03	6.2	24.4	390		5.9						4.5	1.0	1.0	<0.01	1.0		0.7													
F	4/10/03	6.8		400	620	4.2	0.01					7	3.4	0.37		0.10		0.01													

Frederick Baldwin Park

Type	Date	pH	Temp	TDS	Cond	DO	DO (%)	BOD	Phy	Chl	Col	Turb	Fe	TP	PO4-P	P (Org)	Kj-N	NO2/NO3	NH4-N	N (Total)	Pb	Cl	Cd	Cr	Co	Cu	Hg	Ni	Zn	As
U	4/11/88								.13	2.67				26	5		453													
U	22/12/88								4.41	8.01				43	7		593	28												
U	13/02/89								3.34	10.69				45	12		915	8	26											
U	17/03/89								.8	0				39	7		566	74	94											
U	21/04/89								6.94	4.27				36	5		745	180	215											
U	26/05/89									1.07				28	28		1021	260	550											
U	30/06/89								4.81					29	37		826	250	134											
U	28/07/89								.53	1.07				9	9		1670	450	89											
U	22/08/91	7.8			680									17	7	10		200	217											
U	26/09/91	8.4			660									8	1	7		40	44											
U	29/10/92	8.8			700									8	1	7		<1000	<1000/<1000		.52	3.2	<0.2		.55	<0.2		1.4		
U	30/08/95	6.8			323	538				13.04		14			980			3080	540											
U	7/11/95		23.9			9.6	118				.97	2.91	.18	17	7	10	288	6	262		5	1	5		5	.5	5	10	5.7	
U	14/11/96	8.7	27	355	550	15.8	83					2	0.68	100	102	>10	9100	>200		110		>1	>1		>1	>0.1	>1	>1	>1	
U	17/03/97	7.8	23.9	375	585	11.0	128.5					2	1.32	100			1000	1.6		<1		<1	<1		<10	<0.1	<1	<1	10	
U	12/03/98	7.8	22.8	350	545	6.1						6	0.53	0.15	0.44	0.01	1.00	<1 / <0.1		<1		1	<0.01		<0.01	<0.001	0.01	<0.05	10	
U	25/09/98	8.0			310	480	9.2					2	0.30		70	<10	450	<1100		2		4	2		<10	<0.1	10	50	1	
U	26/03/99	8.1	25.5	405	628	12						4	0.31	0.09	0.05	0.04	0.37	0.90 / <0.01		<1		<1	<0.01		<0.01	<0.1	<0.01	<0.05	<1	
U	23/09/99	7.2	20.2	300	472	10.2						9	0.76	0.08	0.08	<0.01	1.43	1.04 / <0.01		<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	<1	
U	28/03/00	7.2	19.0	395	610	7						15	1.98	0.09	0.03	0.06	0.76	1.04/0.06		<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	5	
U	4/10/00	8.3		510	790	6.0	0.01					10	<0.01	0.07		0.07		<0.01		<1		<1	<0.01		<0.01	<0.1	<0.01	0.07	5	
U	13/10/00	8.3	24.2	510	790	6						10	<0.01	0.07	<0.01	0.07		<0.01		<1		<1	<0.01		<0.01	<0.1	<0.01	0.02	5	
U	5/06/01	7.9		210								1		0.02	<0.01	0.02		<0.2		4		<1	<0.01		0.02		<0.1	0.02	4	
U	19/11/01											6	0.31	0.23	<0.01	0.23		<0.1		<1		<1	<0.01		<1	<0.1	<0.01	<0.01	7	
U	19/03/02	8.1	25.5	490	740	7.1						4	0.76	0.1	0.02	0.08		<0.1		<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	14	
U	10/09/02	7.8		290	450	10.7						3	0.43	0.01	<0.01	0.01		<0.1		<0.001		<0.001	<0.01		<0.01	<0.000	<0.01	<0.01	0.006	
U	11/03/03	7.8	30.2	505		7.2						7.1	0.92	1.2	<0.01	1.2		<0.1		<1		<1	<0.01		<0.01	<0.1	<0.01	<0.01	17	

Appendix Five: Bradley Method of Bushland Regeneration

Bull Creek Wetlands Management Plan 2004 - 2009

The aim of bush regeneration by the Bradley method is the systematic removal of weeds to allow native plants to re-establish themselves when and where they choose. This method does not involve replanting – simply the gradual removal of weeds so that no large openings are made. This makes the Bradley method ideal for many situations, such as where native plants are able to colonise the site by seeds or vegetative means, areas sensitive to erosion and areas likely to be over-used.

UNDERLYING PRINCIPLES

1. Always work from areas with native plants towards weed-infested areas.

This makes good ecological sense. If you are relying on natural regeneration then choose areas that will contain the maximum number of existing native plants and native plant seeds, and minimal weed seeds and vegetative reproductive organs of weeds.

2. Make minimal disturbance.

Application of this principal depends on the native species to regenerate. Many plant communities (both weeds and native) need disturbed and sunlit soil for successful regeneration. However, by following the 1st principle above, any weed regeneration should be minimised. Any soil that is disturbed should be returned in its original layers, thus ensuring that any native seed stored in the soil will still be on top. This principle also applies to the application of natural plant mulch in the work area – where a gap is left as a result of weeding, it is recommended that mulch from surrounding areas be added to the gap. This helps to minimise weed regeneration.

3. Let native plant regeneration dictate the rate of weed removal.

The ability to follow this principle may depend on the amount of time and money committed to a particular project. If few weeds and many native plants regenerate, or if the ground remains weed free, little time will need to be spent re-weeding a site, allowing time to be spent on other sites. If masses of weeds regenerate then a lot of time will be required re-weeding so that regenerating native plants can flourish.

DEVELOPING WORK PLANS

1. Prevent deterioration of good areas.

Start by removing weeds scattered through otherwise clean bush. Practically no follow up work will be needed, but it should be checked once or twice a year.

2. Improve the next best area.

Once you are confident you have prevented deterioration of better condition bush, you can start work on thicker patches of weed. Choose a place you can visit easily and often, where thick native growth is pushing up against weeds, preferably no worse than one weed species to every two native plant species. Start with a strip approximately 12 feet wide and no longer

than can be managed with monthly weeding days. If the area to be cleared of weeds runs up a slope which may erode, clear a number of smaller patches instead.

3. Hold the advantage gained.

Resist the temptation to push deeper into the weeds before regenerating natives have stabilised each cleared area. The natives do not need to be very tall, but they usually need to form an almost complete ground cover. Weeds will always nearly keep germinating until this is achieved. These newly regenerated areas are most vulnerable to weed reinvasion and so must be re-weeded as required. If weeding occurs adjacent to the regenerating area prior to sufficient new cover light from adjacent cleared patches can affect the regeneration of natives.

4. Cautiously move into the really bad areas.

When new growth coming up consists almost entirely of native plants with only a few weeds among them, it is safe to move deeper into the weeds. Keep working along the regeneration boundary, making new clearings smaller as the weeds get more dense.

WEEDING TECHNIQUES

1. Disturb the soil as little as possible.

All tools used for weeding programmes should be small, such as a broad boning knife, trowels, secateurs, pliers (for pulling roots), loppers, hatchet and small saws. This recommendation is based on the belief that using small tools will cause minimum soil disturbance and minimal damage to the roots and shoots of nearby native plants.

2. Sweep back the mulch surface.

Any weeding will disturb the ground litter and soil will be exposed. Repair the damage as you go, by pushing back as much mulch as possible. It is often helpful to sweep aside mulch prior to removing large plants, so that it can easily be redistributed when you have finished removing the plant.

3. Mulch with the weeds themselves.

Weeds removed can be used to add to existing mulch. In dry areas leaving the weed with its roots exposed will be sufficient to kill it. In moist areas, hanging the weeds on nearby native vegetation will allow them to dry out and die. Some items are unsuitable for mulch, and these are removed from the site. Such items include bulbs and tubers, plants that root at every node and free-seeders with ripe seed.

4. Watch where you put your feet.

Be careful how you move through the bush. A small weeding party moving through thick bush single file can open up a track. Efforts should be made to not walk on the same paths all the time, and to watch where you walk to ensure you are not trampling native vegetation.

Appendix Six: Methods of Weed Control

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Table A6.1 Methods for Control of Major Weeds

(Information drawn from Brown and Brooks, 2002, and Dixon and Keighery, 1995)

Major Weed	Weed Rating	Timing of Control	Suggested Management and Control
Pampas Grass (<i>Cortaderia selloana</i>)	High	All Year	Cut out small plants – do not leave uprooted plants on ground as they can resprout. Remove flower heads – slash clumps and spray regrowth with 1% glyphosate. Treat young plants with 0.5% Fusilade® plus spray oil. May require repeated treatment.
Perennial Veldgrass (<i>Ehrharta calycina</i>)	High	Flowering Sep – Nov (2 flushes) & after fires	Cut out – ensure crown removal; spray with Fusilade® 8 mL/L (4L/ha) + wetting agent; Spray regrowth and seedlings 4-6 weeks.
African Lovegrass (<i>Eragrostis curvula</i>)	High	Warmer months	Cut out small plants. spray with 1% glyphosate, utilise unplanned fires and spray regrowth at 5-10 cm. Always requires follow up treatment.
Freesia (<i>Freesia</i> sp.)	High	Just on flowering July – Aug	Spot spray metasulfuron methyl 0.2g / 15L + Pulse® (2.5-5g / ha)
Cape Tulip (<i>Moraea flaccida</i>)	High	Just on flowering Sep - Oct	Remove small infestations by hand. Spot spray metasulfuron methyl 0.1g / 10L or chlorsulfuron 0.2g / 10L + Pulse®
Victorian Tea-tree <i>Leptospermum laevigatum</i>	High	N/A	Hand pull seedlings; fell mature plants. Resprouting has been recorded in some areas so may need to basal bark spray with triclopyr + picloram.
Sandplain Lupin (<i>Lupinus cosentinii</i>)	High	Well before flowering (before Aug)	Hand remove scattered plants; Spray dense infestations with metsulfuron-methyl 0.1g / 15L (2-3g / ha) + wetting agent
Pelargonium (<i>Pelargonium capitatum</i>)	High	During flowering Aug – Dec & after fire	Hand pull isolated plants taking care to remove entire stem – will reshoot from below ground level. Spot spray metsulfuron methyl 5 g/ha + Pulse®.
Geraldton Wax (<i>Chamaelucium uncinatum</i>)	High	All Year	Cut stump for large plants with glyphosate immediately after cutting. 1 part glyphosate/5 parts water.
Guildford Grass (<i>Romulea rosea</i>)	High	Just on Flowering (Aug)	Spot spray metsulfuron methyl 0.2g / 15L + Pulse®.
Bulrush (<i>Typha orientalis</i>)	High	Growing season	Repeated cutting and application of Roundup® when actively growing

Major Weed	Weed Rating	Timing of Control	Suggested Management and Control
Arum Lily (<i>Zantedeschia aethiopica</i>)	High	Before Seed Set June - Sept	Spot spray metsulfuron methyl or chlorsulfuron 0.4g/15L of water + Pulse [®] . Higher concentration can be applied a single squirt to leaves.
Sydney Golden Wattle (<i>Acacia longifolia</i>)	Moderate	N/A	Hand pull seedlings; fell mature plants. Resprouting may occur so may need to basal bark spray with triclopyr + picloram.
Blowfly Grass (<i>Briza maxima</i>)	Moderate	Before seed set (spring)	Prevent seed set – hand pull or spray at 3-5 leaf stage with Fusilade 10 ml/ 10L (500 ml / ha) + wetting agent; repeat for 2-3 years
Gladiolus (<i>Gladiolus caryophyllaceus</i>)	Moderate	Just on Flowering (Aug)	Wipe individual leaves 10%, spray dense infestations in degraded area 1% glyphosate.
Water Couch (<i>Paspalum distichum</i>)	Moderate	Spring / autumn	Spray with 1% glyphosate, 2-3 sprays over single growing season. Plant weed break to block spread at risk habitats.
Kikuyu (<i>Pennisetum clandestinum</i>)	Moderate	warmer months	Solarisation over warmer months; spray with 1% glyphosate or Fusilade 10ml / L + wetting agent, 2-3 applications over growing season required.
Blackberry (<i>Rubus fruticosus</i>)	High	Flowering to Fruiting Dec-April	Use of rust as a biological control has been used onsite with limited success. Brush cut and treat regrowth with Roundup [®] (12mL in 1L water)
Giant Reed (<i>Arundo donax</i>)	Low	During flowering Summer (Dec – Feb)	Cut down close to ground; paint with glyphosate. Spot spray regrowth 1% glyphosate or Fusilade [®] 10mL/L + wetting agent.

Appendix Seven: Revegetation Species List

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The following revegetation species are known to successfully propagate. They have been divided into wetland and upland areas. Wetland areas refer to riparian vegetation only (sedges, rushes, paperbarks).

Scientific Name	Common Name	Wetland	Upland
<i>Acacia pulchella</i>	Prickly Moses		X
<i>Acacia saligna</i>	Orange Wattle		X
<i>Acacia stenoptera</i>	Narrow Winged Wattle		X
<i>Acacia willdenowiana</i>	Grass Wattle		X
<i>Adenanthos cygnorum</i>	Woolly Bush		X
<i>Agonis linearifolia</i>	Swamp Peppermint	X	X
<i>Allocasuarina fraseriana</i>	Sheoak		X
<i>Allocasuarina humilis</i>	Dwarf Sheoak		X
<i>Anigozanthos bicolor</i>	Little Kangaroo Paw		X
<i>Anigozanthos humilis</i>	Cats Paw		X
<i>Anigozanthos manglesii</i>	Kangaroo Paw		X
<i>Astartea fascicularis</i>			X
<i>Banksia attenuata</i>	Slender Banksia		X
<i>Banksia ilicifolia</i>	Holly Leaf Banksia		X
<i>Banksia menziesii</i>	Firewood Banksia		X
<i>Baumea articulata</i>	Jointed Rush	X	
<i>Baumea juncea</i>	Bare Twigrush	X	
<i>Boronia crenulata</i>	Aniseed Boronia		X
<i>Bossiaea eriocarpa</i>	Common Brown Pea		X
<i>Burchardia umbellata</i>	Milkmaids		X
<i>Calytrix flavescens</i>	Summer Star Flower		X
<i>Centella cordifolia</i>	Centella	X	
<i>Chamaescilla corymbosa</i>	Blue Squill		X
<i>Conostylis juncea</i>			X
<i>Conostylis setigera</i>	Bristly Cottonhead		X
<i>Corymbia calophylla</i>	Marri		X
<i>Dampiera linearis</i>	Common Dampiera		X
<i>Eucalyptus marginata</i>	Jarrah		X
<i>Eucalyptus rudis</i>	Flooded Gum	X	X
<i>Eucalyptus todtiana</i>	Prickle Bark		X
<i>Gompholobium aristatum</i>			X
<i>Gompholobium tomentosum</i>	Hairy Yellow Pea		X
<i>Haemodorum spicatum</i>	Mardja		X
<i>Hardenbergia comptoniana</i>	Native Wisteria		X

Scientific Name	Common Name	Wetland	Upland
<i>Hemiandra pungens</i>	Snake Bush		X
<i>Hovea trisperma</i>	Common Hovea		X
<i>Hypocalymma angustifolium</i>	White Myrtle		X
<i>Isotropis cuneifolia</i>	Granny Bonnets		X
<i>Jacksonia furcellata</i>	Grey Stinkwood		X
<i>Jacksonia sternbergiana</i>	Stinkwood		X
<i>Juncus kraussii</i>	Sea Rush	X	
<i>Juncus pallidus</i>	Pale Rush	X	
<i>Kennedia prostrata</i>	Running Postman		X
<i>Kunzea ericifolia</i>	Spearwood	X	X
<i>Lepidosperma longitudinale</i>	Pithy Sword Sedge	X	
<i>Leptocarpus</i> sp.	Rush	X	
<i>Loxocarya flexuosa</i>		X	X
<i>Macrozamia riedlei</i>	Zamia		X
<i>Melaleuca preissiana</i>	Moonah	X	
<i>Melaleuca raphiophylla</i>	Swamp Paperbark	X	
<i>Melaleuca thymoides</i>			X
<i>Nemcia capitata</i>	Bacon and Eggs		X
<i>Nuytsia floribunda</i>	Christmas Tree		X
<i>Oxylobium lineare</i>	Narrow-Leaved Oxylobium		X
<i>Paraserianthes lophantha</i>		X	
<i>Patersonia occidentalis</i>	Purple Flag		X
<i>Pericalymma ellipticum</i>	Swamp Teatree	X	X
<i>Persoonia saccata</i>	Snottygobble		X
<i>Petrophile linearis</i>	Pixie Mops		X
<i>Pimelea rosea</i>	Rose Banjine		X
<i>Schoenus grandiflorus</i>	Large Flowered Bog Rush		X
<i>Scholtzia involucrata</i>	Spiked Scholtzia		X
<i>Stylidium brunonianum</i>	Pink Fountain Triggerplant		X
<i>Stylidium schoenoides</i>	Cow Kicks		X
<i>Thysanotus manglesianus</i>	Fringed Lily		X
<i>Viminaria juncea</i>	Swishbush	X	
<i>Xanthorrhoea preissii</i>	Grass Tree		X