DBNGP GAS PIPELINE CORRIDOR EXPANSION - KWINANA TO BUNBURY PROJECT

STRATEGIC ENVIRONMENTAL REVIEW

GPWG
GAS PIPELINE WORKING GRO

Department of Industry and Resources

FINAL RESPONSE TO SUBMISSIONS
AERIAL PHOTOS OF CORRIDOR ALIGNMENT
KEMERTON BUSHLAND NATURAL VALUES

162
19/811

ENTERED ON GIS

Name: HGM Datasheets – Greater Bunbury Region Scheme
Date: 01/05/2006
Capture Author: Thomas Leong

Comments:

Polygon

Created to match documented study area with high level of accuracy

Accuracy Levels:

- High = Document contained visual and or described spatial references easily copied, resulting in little or no polygon boundary errors
- Acceptable = Document contained visual references with complex boundaries, resulting in minor boundary errors
- Low = Document contained little or no visual references, resulting in polygon boundary errors

Attributes

Report Info – Captured without problems
Custodial/Contact – Captured without problems
Content – Captured without problems

MK - 7B (2)

Unit	Description
1.1	*Kunzea glabrescens* Closed Tall Scrub with emergent *Melaleuca preissiana* and *Corymbia calophylla*
1.2	*Corymbia calophylla, Eucalyptus marginata* subsp. *marginata, Banksia attenuata* and *Banksia ilicifolia* Open Woodland over *Kunzea glabrescens* Tall Open Scrub
1.3	*Eucalyptus marginata* subsp. *marginata, Corymbia calophylla, Banksia attenuata* and *Banksia ilicifolia* Woodland over *Allocasuarina humilis* and *Xanthorrhoea brunonis* subsp. *brunonis* Shrubland
2.1	*Eucalyptus gomphocephala* and *Agonis flexuosa* var. *flexuosa* Open Forest to Woodland
2.2	*Melaleuca rhapiophylla* Open Woodland
3.1	*Banskia attenuata, Eucalyptus marginata* subsp. *marginata* and *Xylomelum occidentale* Low Open Woodland over *Melaleuca thymoides, Kunzea glabrescens, Hypocalymma robustum* and *Adenanthos meisneri* Shrubland
3.2	*Eucalyptus marginata* subsp. *marginata* and *Corymbia calophylla* Woodland over *Banksia grandis* Low Open Woodland
3.3	*Eucalyptus marginata* subsp. *marginata* and *Corymbia haematoxylon* Woodland over *Xanthorrhoea preissii* Open Shrubland
3.4	*Corymbia calophylla* Open Forest over *Agonis flexuosa* var. *flexuosa* Low Open Forest
4.1	*Corymbia calophylla* and *Agonis flexuosa* var. *flexuosa* Open Forestv
4.2	*Eucalyptus rudis* subsp. *rudis* and *Agonis flexuosa* var. *flexuosa* Open Forestv
4.3	*Agonis flexuosa* var. *flexuosa* Closed Forest
4.4	*Melaleuca preissiana* and *Agonis flexuosa* var. *flexuosa* Low Open Forest
4.5	*Melaleuca rhapiophylla* Low Open Forest
4.6	*Corymbia calophylla* and *Eucalyptus marginata* subsp. *marginata* Open Woodland over Tall Shrubland dominated by *Melaleuca preissiana, Banksia littoralis, Agonis flexuosa* var. *flexuosa* and *Kunzea glabrescens* and combinations of these
5.1	*Eucalyptus rudis* subsp. *rudis* and *Melaleuca rhapiophylla* Woodland
5.2	*Melaleuca rhapiophylla* Closed Forest
5.3	*Eucalyptus rudis* subsp. *rudis* Woodland over *Agonis flexuosa* var. *flexuosa* and *Melaleuca rhapiophylla* Woodland with occasional *Corymbia calophylla*
[illegible].1	*Eucalyptus marginata* subsp. *marginata* and *Corymbia calophylla* Woodland over *Xanthorrhoea preissii, Acacia pulchella* and *Acacia flagelliformis* Open Shrubland
7A.1	Very Open Grassland dominated by **Ammophila arenaria, *Pelargonium capitatum* and *Olearia axillaris*
7A.2	*Agonis flexuosa* var. *flexuosa* and *Jacksonia furcellata* Tall Shrubland over *Alyxia buxifolia* and *Acanthocarpus preissii* Open Heath
7A.3	*Eucalyptus gomphocephala* and *Agonis flexuosa* var. *flexuosa* Low Open Forest over *Spyridium globulosum* and *Alyxia buxifolia* Open Heath
7B.1	*Melaleuca rhapiophylla* and *Melaleuca viminea* subsp. *viminea* Low Open Forest
7B.2	Closed Sedgeland dominated by *Juncus kraussii* subsp. *australiensis, Triglochin huegelii, Baumea juncea* and **Juncus oxycarpus* and combinations of these
7B.3	*Halosarcia lepidosperma, Halosarcia indica* subsp. *bidens* and *Juncus kraussii* subsp. *australiensis* Open Low Heath
8.1	*Corymbia calophylla* and *Eucalyptus marginata* subsp. *marginata* Open Forest to Woodland over *Banksia grandis* and *Agonis flexuosa* var. *flexuosa* Woodland
8.2	*Corymbia calophylla* and *Eucalyptus marginata* subsp. *marginata* Woodland over *Jacksonia furcellata, Kunzea glabrescens* and *Agonis flexuosa* var. *flexuosa* Woodland
8.3	*Eucalyptus rudis* subsp. *rudis* and *Melaleuca rhapiophylla* Open Forest over *Melaleuca incana* subsp. *incana* Tall Open Scrub
8.4	*Corymbia calophylla, Eucalyptus rudis* subsp. *rudis* and *Casuarina obesa* Woodland
9.1	*Lepidosperma gladiatum* Sedgeland
9.2	*Agonis flexuosa* var. *flexuosa* Open Forest
9.3	*Eucalyptus gomphocephala* Closed Forest over *Agonis flexuosa* var. *flexuosa* Low Open Forest
9.4	Open Low Heath dominated by *Scaevola crassifolia, *Pelargonium capitatum* and *Olearia axillaris*
[illegible]5	Open Low Heath dominated by *Acanthocarpus preissii, Phylanthus calucinus, Acacia cochlearis* and *Lepidosperma gracile* with emergent *Agonis flexuosa* var. *flexuosa*
9.6	*Banksia littoralis* Low Woodland over Tall Open Scrub dominated by *Xanthorrhoea preissii, Anthocercis littorea* and *Acacia saligna*
9.7	Closed Sedgelands dominated by *Lepidosperma gladiatum, Carex appressa, *Typha orientalis* and *Pteridium esculentum* and combinations of these with emergent *Acaclia saligna, Banksia littoralis, Agonis flexuosa* var. *flexuosa* and *Melaleuca rhapiophylla*
9.8	Mosaic of units 9.1 and 9.7
9.9	*Agonis flexuosa* var. *flexuosa* Low Open Forest
9.10	Mosaic of units 9.6 and 9.9
10.1	*Eucalyptus gomphocephala, Corymbia calophylla* and *Eucalyptus marginata* subsp. *marginata* Open Forest over Low Woodland dominated by *Banksia attenuata, Banksia grandis, Agonis flexuosa* var. *flexuosa* and *Xylomelum occidentale* and combinations of these
10.2	*Eucalyptus gomphocephala* Open Forest over *Agonis flexuosa* var. *flexuosa* Low Open Forest
10.3	*Melaleuca rhapiophylla* and *Melaleuca teretifolia* Low Open Forest with emergent *Eucalyptus rudis* subsp. *rudis*
11.1	*Juncus kraussii* subsp. *australiensis* Closed Sedgeland with emergent *Casuarina obesa* and *Eucalyptus rudis* subsp. *rudis*
?9.2	Unverified 9.2
S	Sand dunes and foreshore
X	Disturbed

DRAFT GREATER BUNBURY REGION SCHEME - ENVIRONMENTAL SURVEY
VEGETATION UNITS - LEGEND

Government of Western Australia
Department for Planning and Infrastructure

Western Australian Planning Commission

Vegetation_Unit_Legend.ai

Figure 3.0

Vegetation Survey Sheet

HGM Datasheets:

2

Project: GBRS	Initials: BR & EB	Site No: 2.1
Date: 23/9/02	Film No: 1	Photo No: 1a

Location: Site 2 western edge	GPS: 371035E
*tracks been re-cleared, pegged road reserve,	6301349N
litter/logs piled ~50m	

Topography: sanddune Br : R : US : [✓ MS] : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : S : [✓ SE] : E : NE : N/A
Outcropping: N/A Num : Mod : Occ	Litter Cover (%): Litter Type: 10 [✓ Logs] 10 [✓ Twigs] 10 [✓ Leaves]
Soil Ratio: ..... Clay ..... Silt 100 Sand	Bare Ground (%): 0
Soil Colour:	Age since last fire:
Pebble Type: N/A Angular : Subangular : Rounded	Pebble Size: N/A <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Woodland of Tuart over Agonis flexuosa Hibbertia cuneiformis Lepidosperma gladiata

Condition 2.

Coll. No.	Species	Ht (cm)	%A	%D
	Euc gomphocephala	16m	30	
	Agonis flexuosa	8m	30	
	Hibbertia cuneiformis	250	10	
	Geranium retrorsum	5	30	
	Lepidosperma gladiata	180	70	
	Briza maxima	15	0.1	
	Sagina apetala (chickweed)	5	0.01	
	Hardenbergia comptoniana	CR	5	
	Sonchus oleraceus	10	0.1	
	Euphorbia peplus	15	1	
	Petrorhagia velutina	15	0.1	
	Daucus glochidiatus	5	0.1	
	Solanum nigrum	50	0.1	
	~~[illegible]~~ Dichopogon preissii	80	1	
	Trifolium campestre	10	0.5	
EB2	Oxalis corniculata	20	0.5	
EB 1	Pterostylis ? ~~nana~~ sp. "Slender Snail Orchid"	10	0.3	

Vegetation Survey Sheet

Site 2 cont.

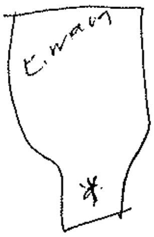
Coll. No.	Species	Ht (cm)	%A	%D
	*Sherardia arvensis ~~Rubiaceae~~ (weed book - common!)	10	20	
	Ehrharta longiflora	20	2	
EB3	Geranium solandri	40	0.5	
	Hypochaeris glabra	10	0.01	
	Pterostylis vittata	10	0.01	
	Macrozamia riedlei	20	0.5	
	Zantedeschia (arum lily)	20	0.01	
EB4	Piptatherum (grass)	50	0.1	
	Acanthocarpus preissii	50	0.3	
	Opps			
	Banksia grandis			
	Banksia attenuata			
	Eucalyptus marg subsp. marg.			
	Caladenia flava			
	Sowerbaea laxiflora			
	Drosera stolonifera			
	Leucopogon capitellatus			
	*Trachyandra divaricata			
E B5	Conostylis aculeata subsp. aculeata			
	Orthrosanthus laxus			
	*Briza ~~minima~~ maxima			
	Trifolium subterraneum			
	Chamaescilla corymbosa			
	*Arctotheca calendula			
	*Cotula turbinata			
	Dischisma capitata			
	Kennedia prostrata			
EB6	Lomandra			
	Hibbertia racemosa			
	~~Leucopogon~~ Conostephium pendulum			
	Rhagodia baccata			
EB7	*Solanum ~~apple~~ laciniatum			
EB8	*~~Vigna~~ Vicia sativa subsp. nigra			
	Lagenophora huegelii			

PTO

* in cleared area the Geranium retrosum becomes dominant

Xanthorrhea preissii

opps



Acacia saligna
Anogallis arvensis blue
Appiaceae Erigium pinnatifidum
Spyridium globulosum
Hovea trisperma
Hibbertia hypericoides
Isolepis nodosus
EB 9 Thistle *Circium arvense subsp. arvense
Xanthorhea gracilis
Leucopogon propinqus
Corymbia calophylla

2.2 releve
degraded swamp
Photos 3+4

Melaleuca rachiophylla x 20 @ boundary
Juncus pallidus
Agonis flexuosus
Euc gomph
*Sonchus asper
+ pasture spp.

Nr fence Jacksonia furcellata
Clematis linearifolia
Daviesia divaricata

Vegetation Survey Sheet

9

Project:	Initials:	Site No: 9.~~3~~31
Date: 23/9/02	Film No: 1	Photo No: 5&6

Location: Swamp on eastern side of location	GPS: 370534 6300797

Topography: Swamp Br : R : US : MS : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : [✓ N/A]
Outcropping: laterite N/A [illegible] W side in [illegible] Num : Mod : Occ	Litter Cover (%): Litter Type: ..... Logs ..... Twigs ..... Leaves
Soil Ratio: ..... Clay ..... Silt ..... Sand	Bare Ground (%):
Soil Colour:	Age since last fire:
Pebble Type: Angular : Subangular : Rounded	Pebble Size: <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Shrubland of Calycopeplus over Gahnia trifida, Lepidos weeds

condition 4

Coll. No.	Species	Ht (cm)	%A	%D
11	Calycopeplus oligandrus	3m	15	
	Gahnia trifida	250	20	
10	Lepidosperma gladiatum	3m	50	
	Holcus lanatus	30	40	
	Pteridium esculentum	40	~~10~~ 5	
	Rhagodia baccata	3m	5	
17	~~Centaurea~~ Centella asiatica	15	0.5	
12	~~Gahnia Δ stem~~ Carex appressa	2m	0.1	
	Zantedeschia aethiopica (arum lily)	40	0.3	
13	~~*Divided petals~~ *~~Cerastium glomeratum~~ Stellaria media	10	10	
15	~~Gahnia terete~~ Baumea juncea	40	5	
	Cassytha racemosa (dead)	CR	0.1	2
7	*Solanum ~~linnaeanum~~ laciniatum	80	0.3	
	Phebalium anceps (Blister bush)	2m	0.3	
14	*Solanum ~~(nigrum)~~ americanum	30	0.05	
	Hibbertia cuneifolius	50	0.1	
	Sonchus asper	20	0.1	

Coll. No.	Species	Ht (cm)	%A	%D
EB8	~~Vigna~~ Vicia sativa subsp. nigra	10	0.05	
	*Solanum nigrum	50	0.05	
	Conyza sp.	30	0.01	
EB 16	~~Ranunculus~~ *Apium graveolens	20	0.01	
	*Sonchus oleraceus	~~3~~10	0.01	
	* ~~[illegible]~~ ~~Kikuya grass~~ *Pennisetum clandestinum	10	0.01	
opps.	* Cynodon dactylon			
	Geranium retrosum			
	Euphorbia peplus			
	*Cirsium vulgare (scotch thistle)			
	Acacia saligna			
	Spyridium globulosum			
	Romulea rosulosa (Guildford)			
check*	~~Rubiaceae sp~~ Sherardia arvensis.			
	Cotula turbinata			
	*Hordeum vulgare			
	* clover weeds			
	Isolepis nodosus			
18	Cyperus ~~A stem~~ congestus			
	Trachyandra divaricata			
	Juncus pallidus			
	* ~~Juncus~~ Isolepis prolifera			
19	*Cotula coronopifolia ✓			
20	~~Apiaceae~~ Hydrocotyle tetragonocarpa			
	Poa annua			
	Juncus bufonius			
	~~Rumex sp~~ Picris squarrosa			
	*Typha orientalis			
	Banksia littoralis	W edge interface in Agonis		
35	~~E~~ Erodium cicutarium			
36	Adriana quadripartita			
	* Solanum linneanum			

Vegetation Survey Sheet

Project:
Date: 23/9/02
Initials:
Film No: 1
Site No: 9.2
Photo No: 7, 0

Location:
Condition - site overall - '5'
GPS: 340 355
6300100

Topography: Br : R : US : [✓ MS] : LS : DL : MiC : MaC
Aspect: N : NW : W : SW : S : SE : [✓ E] : NE : N/A
Outcropping: /
Num : Mod : Occ
Litter Cover (%):
Litter Type: ? Logs ? Twigs ? Leaves
Soil Ratio: ..... Clay ..... Silt ..... [✓ Sand]
Soil Colour:
Bare Ground (%): —
Age since last fire: > 5
Pebble Type:
Angular : Subangular : Rounded
Pebble Size:
<1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Agonis flex over Hibb cun

Coll. No.	Species	Ht (cm)	%A	%D
	Agonis flexuosa	2m	40	
	Hibbertia cuneiformis	2m	30	
	Trachyandra divaricata	40cm	30	
	[illegible]			
	Caladenia latifolia	20	0.1	
	Daucus glochidiatus	5	0.5	
	Hypochaeris glabra	5	0.5	
	Trachymene pilosa	5	0.5	
EB3	Geranium solandri	5	5	
~~16~~	~~Ranunculus~~			
21	~~Apiaceae~~ Hydrocotyle scutellifera	10	0.1	
	Hardenbergia comp.	[illegible]	0.5	
	Rhagodia baccata	[illegible]		
	Romulea ramulosa	10	[illegible]	
	Heliophila pusilla	15	[illegible]	
22	~~Luzula meridionalis~~ Carex preissii	10	[illegible]	
2	*Oxalis corniculata	-	0.5	

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
	Lepidosperma squamatum	40	5	
	Zantedeschia (arum)	40	0.[illegible]	
4	Piptatheria (grass) Piptatherum milliaceum	[illegible]	[illegible]	
	Acacia saligna seedling	[illegible]	[illegible]	
	Sagina apetala	10	5.5	
	*Trifolium campestri	10	0.5	
	Thysanotus patersonii	6	0.[illegible]	
17	~~[illegible]~~ Centella asiatica	5	5	
	Sonchus oleraceus	10	[illegible]	
	Conostylis juncea	10	0.[illegible]	
23	~~[illegible] weed~~ *~~Silene sp.~~ Parietaria debilis			
24	[illegible] ~~[illegible]~~ perenne		[illegible]	
	Acanthocarpus preissii			
	Dischisma capitata			
	Crassula colorata			
25	Ptilotus sericostachyus subsp. sericostachyus			
26	~~[illegible] zia yellow~~ Rhodanthe citrina			
27	Millotia myosotidifolia			
28	Centrolepis [illegible] muelleri			
[illegible]	~~[illegible]~~ Asteridea pulverulenta			
[illegible]	~~[illegible]~~ *Parentucellia viscosa ✓✓			
	Cuscuta [illegible]			
	Phyllanthus [illegible]			
	Senecio lautus			
	Acacia ~~[illegible]~~ cochleans			
	Exocarpos sparteus			
	[illegible] indicum "			
31	Calandrinia ? ~~poly~~ liniflora			
32	Thomasia [illegible] triphylla			
	Isotropis cuneifolia			
	Dipolena ~~[illegible]~~ dampieri			
	Leucopogon [illegible]			
	Jacksonia furcellata			
	[illegible]m pinnatifida			
	Olearia [illegible]			
	Xanthorrhoea preissii			

PTO

~~[illegible]~~
[illegible] s linearifolia

370215 [illegible]
6300817

Vegetation Survey Sheet

Project:	Initials:	Site No: 9.30
Date: 23/9/02	Film No: 1	Photo No: 9, 10

Location:	GPS: 369955
	6300955
Condition 4-5	

Topography: Br : [✓ R] : [✓ US] : MS : LS : DL : MiC : MaC	Aspect: [✓ N] : NW : W : SW : S : SE : E : NE : N/A
Outcropping: N/A Num : Mod : Occ	Litter Cover (%): Litter Type: ..... Logs ..... Twigs 10 Leaves
Soil Ratio: ..... Clay ..... Silt 100 Sand Soil Colour:	Bare Ground (%): Age since last fire:
Pebble Type: Angular : Subangular : Rounded	Pebble Size: N/A <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Tuart over Peppermint

= Site 2.1

weedy, not as degraded, no Lepidosperma in

old Tile @ [illegible] nearby

Coll. No.	Species	Ht (cm)	%A	%D
	Euc gomphocephala	25m	35	
	Agonis flexuosa	10m	60	
	Trachyandra divaricata	50	50	
	Spyridium globulosum	50	2	
EB3	Geranium solandri	10	20	
	Caladenia latifolia	15	5	
	Sonchus oleraceus	20	0.5	
	Rhagodia baccata	1m	1	
	Ehrharta longiflora	10	50	
	Acanthocarpus preissii	30	0.5	
	Hardenbergia comptoniana	CK	0.5	
	Lepido squamatum	30	1	
	Anagallis arvensis	20	3	
	Zantedeschia (arum)	50	2	
	Daucus glochidiatus	10	0.5	
	[illegible]	30	0.5	
	Thysanotus ~~[illegible]~~ patersonia	CK	0.5	

Coll. No.	Species	Ht (cm)	%A	%D
5	Conostylis aculeata ssp. acoleata	10	0.1	
	~~[illegible] [illegible]folia~~			
	Dianella revoluta	40	0.5	
	Lepido glad			
	Olearia axillaris			
	Exocarpus sparteus			
23	~~Pink weed~~ Parietaria debilis			
33	~~Rumex long lf~~ Picris squarrosa			
28	Triglochin muelleri			
17	~~Centaurea asiat~~ Centella asiatica			
22	~~Luzula? meridionalis~~ Carex preissii			
	Diplolaena ~~angustifolium~~ dampieri			
	Senecio lautus			
	Phyllanthus calycinus			
34	Triglochin ~~[illegible]~~ calcitrapa			
27	Millotia ~~myot~~ myosotidifolia			
	Opercularia vaginata			

Vegetation Survey Sheet

Project:	Initials:	Site No: 9.4
Date: 24/9/02	Film No: 1	Photo No: 11 + 12

Location: Beach front fore dune (NB dune rises sharply from ocean) Headland opp off shore rocks	GPS: 368 333 6299359

Topography: Br : R : US : MS : [✓ LS] : DL : MiC : MaC	Aspect: N : [✓ NW] : [✓ W] : SW : S : SE : E : NE : N/A
Outcropping: Num : Mod : Occ	Litter Cover (%): 8% Litter Type: — Logs 10 Twigs 5 Leaves
Soil Ratio: ..... Clay ..... Silt ..... [✓ Sand] Soil Colour:	Bare Ground (%): 50%
	Age since last fire:
Pebble Type: Angular : Subangular : Rounded	Pebble Size: <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: No peg left in ground (peg, photo + GPS from NW peg, then pulled out)
*Low Shrubland / Herbland of Pelagonium + Scaevola

Coll. No.	Species	Ht (cm)	%A	%D
	*Euphorbia paralias (or Pat)	20	10	
	Pelagonium capitatum	30	5	
	Scaevola crassifolium	40	30	
	Hardenbergia comp	20	0.5	
	Trachymene dicarpa	40	1	
	~~[illegible]~~ Senecio lautus	10	0.1	
	Lepido gladiatum	50	0.1	
	Isolepis nodularis	10	0.1	
	Olearia axillaris	50	2	
	?Lagurus ovatus	20	0.1	
CB 37	Beach grass ?Rostraria cristata	10	0.5	
CB 38	?~~Threlkeldia~~ Tetragonia decumbens	5	8	
	Arctotheca ~~nivea~~ calendula (dead)	—	—	0.1
	Acacia cyclops	—	—	0.1
	Spinifex hirsutus } ? flatter dune			
	Spinifex longifolius }			
	*Hypochaeris glabra			

x/1 seed only

opps

Vegetation Survey Sheet.xls

*Note: lots of dead plants on steep slope

Vegetation Survey Sheet

cochlianis

Part of T10T 4.5

spps

Coll. No.	Species	Ht (cm)	%A	%D
39	Acacia ~~fat lf~~ cochlearis			
	Cakile maritima			
	Acanthocarpus preissii			
	Spyridium globulosum			
40	Cassytha ~~(racemosa/thick~~) racemosa			
	Hibbertia cuneiformis			
41	Exocarpos sparteus			
	Rhagodia baccata			
	Anthocercis littorea			
42	Scaevola lanceolata			

Veg..atio.. .urve, .nee.

	Initials:	Site No: 9.5
ct:	Film No: 1	Photo No: 13.14
:24/9/02		GPS: 368 563
ation: Swale & mid dunes		6299 401

pography: sand dune
Br : R : US : [✓ MS] : [✓ LS] : DL : MiC : MaC

utcropping: N/A
Num : Mod : Occ

Soil Ratio: ..... Clay ..... Silt ..... Sand

..il Colour:

Pebble Type:
Angular : Subangular : Rounded

Aspect:
[✓ N] : NW : W : SW : S : SE : E : NE : N/A

Litter Cover (%):
Litter Type: ..... Logs ..... Twigs ..... Leaves

Bare Ground (%):

Age since last fire:

Pebble Size:
<1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Low shrubland with emergent agonis flex

Condition: 3

Coll. No.	Species	Ht (cm)	%A	%D
		5m	5	
	Agonis flexuosa	40	50	
	Acanthocarpus preissii	40	10	
	Phyllanthus calycinus	100	8	
	Acacia cochlearis ✓✓	CK	1	
EB 39	Cassytha ~~[illegible]~~ racemosa	30	1	
40	Scaevola ~~[illegible]~~ lanceolata	40	10	
42	Lepidosperma ~~squamatum~~ gracile	30	0.5	
44	Senecio lautus	20	0.5	
	?Lagurus ovatus	50	1	
	Gompholobium tomentosum	60	1	
43	Poa ~~native~~ porphyroclados	50	30	
	Trachyandra divaricata	5	0.1	
	Carpobrotus ~~edulis~~ virescens	40	0.1	
46	Eryngium ~~[illegible]~~ pinatifida	80	0.3	
	Exocarpos sparteus	20	0.1	
41	Rhagodia baccata	120	2	
	Spyridium globulosa			

Coll. No.	Species	Ht (cm)	%A	%D
	~~Conostylis [illegible]~~			
	~~Leucopogon [illegible]~~			
	~~[illegible]~~			
	~~Pin Daucus gloch~~			
	Diplolaena dampieri	50	1.5	
	Hardenbergia comp.	CK	0.1	
EB5	Conostylis aculeata ssp. aculeata	40	2	
	Daucus gloch	5	0.1	
	Leucopogon parviflorus	120	2	
	Marotaxis grandiflorus	1	0.01	
	Opercularia vaginata	10	0.1	
	*Romulea ramulosa	10	0.1	
	Crassula colorata ssp colorata	10	0.01	
	Olearia axillaris			
	Anthocercis littoralis			
32	Eremophila glabra subsp. albicans			
	Alyxia buxifolia			
	Jacksonia furcellata			
	Acacia saligna			
	Hibbertia cuneifolia			
	Vulpia myuros			
45	Austrostipa ~~sand~~ compressa			
EB 23	~~Red [illegible] weed~~ Parietaria debilis			
	Trachymene pilosa			
	Orobanche australis			
	Caladenia latifolia			
	Clematis linearifolia			
	*Avena barbata			
	Dianella revoluta			
	Ozothamnos cordatus			
	Lepido gladiatum			

opps

Vegetation Survey Sheet

Project:	Initials:	Site No: 9.6
Date: 24/9/02	Film No: 1	Photo No: 15, 16

Location: Edge of swamp	GPS: 368649 6299134

Topography: Br : R : US : MS : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : N/A
Outcropping: .... Num : Mod : Occ	Litter Cover (%): .... Litter Type: ..... Logs ..... Twigs ..... Leaves
Soil Ratio: ..... Clay ..... Silt ..... Sand Soil Colour:	Bare Ground (%):
	Age since last fire:
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Banksia littoralis over shrubby
dominated by X preissii or
Ac saligna. Anthocercis common
after fire.

Condition: [illegible]

Coll. No.	Species	Ht (cm)	%A	%D
	Banksia littoralis	8m	25	
	Xanth preissii	2.5m	20	
	Anthocercis littorea	2m	25	
	Ac. saligna	2m	20	
44	Lepido ~~small~~ gracile	40cm	30	
	Clematis linearifolia	CL	15	
	Crassula colorata colorata	5	0.1	
	Phyllanthus calycinus	30	0.5	
	Olearia axillaris	40	0.5	
47	Poa ~~bulbosa~~ porphyroclados	30	0.5	
35 ~~[illegible]~~	Erodium cicutarium ~~Geranium white flw~~	5	0.1	
	~~[illegible]~~ *Avena barbata	30	0.1	
43	Poa ~~native~~ porphyroclados	100	0.5	
	Dauchus gloch	5	5	
23	~~Pink weed~~ Parietaria debilis	10	10	
	Calandenia latifoli	20	0.1	
	Thysanotos patersonii	CL	2	

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
	Agonis flex	2m	3	
41	Exocarpus sparteus	150	0.5	
48	Lepido ~~tall [illegible]~~ squamatum	80	2	
33	~~Rumex long lf~~ Picris squamosa	10	0.5	
22	~~Luzula meridion~~ Carex preissii;	10	0.1	
	Rhagodia baccata	60	5	
	Senecio lautus	10	0.3	
	Sagina apetalom	5	0.1	
	Bromus arenarius	30	2	
	*Hypochaeris glabra	5	0.1	
	Spyridium globulosum	40	0.1	
49	~~Geranium ovate~~ Pelargonium littorale	5	0.1	
	Trachyandra divaricata.	40	1	
	Trachymene pilosa	5	0.1	
	Isolepis nodosa	80	0.5	
	*Zanthodescia aem	5	0.1	
	Acacia ~~cupian~~ cochlearis	60	0.5	
	Acanthocarpos preissii			
46	Carpobrotus virescens			
40	Cassytha racemosa			
32	Eremoph glabra subsp. albicans			
10	Lepido gladiatum			
5	Conostylis aculeata ssp. aculeata			
	Avena barbata			
27	Millotia ~~myot~~ myosotidifolia			
50	Phyllangiums paradoxum			
	Dischisma capitata			
	Jacksonia furcellata			
	*Romulea romulosa			

opps

* Condition = 3 for all sites
done so for 24/9 am

Vegetation Survey Sheet

Project:	Initials:	Site No: Releve 1 (9.7 releve)
Date: 24/9/07	Film No:	Photo No: 17 + 18

Location:	GPS: 368 749
"drain" @ W edge of swamp	6298 886

Topography: Br : R : US : MS : LS : DL : MiC : [✓ MaC]	Aspect: N : NW : W : SW : S : SE : E : NE : N/A
Outcropping: .... Num : Mod : Occ	Litter Cover (%): .... Litter Type: ..... Logs ..1.. Twigs ..1.. Leaves
Soil Ratio: ..... Clay ..... Silt ..... Sand Soil Colour: Sandy clay	Bare Ground (%): Age since last fire:
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Fringing Muddy Lake Sedgeland of Lepido, Pteridium + EB12 Triangular ~ emergent

Coll. No.	Species	Ht (cm)	%A	%D
	Acacia saligna	250	1	
	Banksia littoralis	9m	0.01	
	Agonis flex	9m	0.1	
	Phebalium anceps	2m	0.01	
	Pteridium esce	180	30	
51	~~Carex (Cyperaceae)~~ Bulboschoenus medionalis	180	2	
10	Lepiod gladiatum	180	50	
	* ~~Pampus grass~~ Cortaderia selloana	2m	0.01	
	Rhagodia baccata	50	0.01	
12	~~Triangular gahnia~~ Carex appressa	150	10	
	Ehrharta longifolia	50	0.01	
	*Typha orientalis	160	10	
	~~Juncus~~ *Isolepis prolifera	40	0.1	
	Rumex sp. (young)	10	0.01	
	Arum lily	40	0.01	
	* Sonchus oleracus	10	0.01	
52	Persicaria decipiens	20	0.01	

Coll. No.	Species	Ht (cm)	%A	%D
	Juncus pallidus	150	~~9~~ 2	
	*Kikuya *Pennisetum clandestinum			
⊛	Along open water, fringing			
	Melaleuca rhaphiophylla			
53	Muoporum ~~serrulatum~~ oppositifolium			
11	Calicopeplus digandra on E side			
	(same as Manday swamp)			
	[Condition 2 - 3]			

Vegetation Survey Sheet

Project:	Initials:	Site No: 8.1
Date: 24/9/02	Film No: 1	Photo No: 19, 2

.8

Location:

GPS: 38096
631620

Topography:
Br : R : US : MS : LS : DL : MiC : MaC

Aspect:
N : NW : W : SW : S : [✓ SE] : E : NE : N/A

Outcropping:
Num : Mod : Occ

Litter Cover (%):
Litter Type: ..... Logs ..... Twigs ..... Leaves

Soil Ratio: ..... Clay ..... Silt ..... Sand

Soil Colour:

Bare Ground (%):

Age since last fire:

Pebble Type:
Angular : Subangular : Rounded

Pebble Size:
<1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Dominant Comm – Dieback survey, evidence of dead Banksia

a

Condition 3-4

Coll. No.	Species	Ht (cm)	%A	%D
	Corymbia calo	12m	40	
	Banksia grandis	12m	10	
	Agonis flexuosa	10m	5	
	Hakea prostrata	4m	1	
	Bossiaea eriocarpa	50	0·5	
	Hibbertia hypericoides	80	60	
	Daviesia divaricata	90	2	
	*Hypochaeris glabra	5	3	
	*Ursinia anthemoides	50	1	
	Trifolium campestre	10	10	
	Heliophila pusilla	25	0·5	
	Daucus glochidiatus	10	0·5	
	Petrorhagia velutina	15	1	
	Vicia sativa	T	0·5	
	Xanth gracilis	1m	8	
	Sowerbaea laxiflora	40	1	

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
	Romulea rosea	15	0·5	
	Crassula colorata	5	0·1	
	Sagina apetala	10	0·1	
EB3	~~[illegible]~~ Geranium solandri	20	0·5	
	Anagallis arvensis	10	0·5	
	Briza minor	15	0·1	
54	Caladenia "georgei"	30	0·01	
	Lagenifera huegelii	15	0·5	
	Dichopogon preissii	15	1	
	Lomandra micrantha	30	0·1	
	Leucopogon capitellatus	40	0·5	
	Ehrharta longiflora	45	1	
	Briza maxima	35	1	
	Lepidosperma squamatum	70	0·5	
	Hardenbergia comptoniana	T	0·1	
	Xanth preissii	70	1	
	Caladenia latifolia	35	0·1	
	Astroloma ciliatum	10	0·1	
	Ehrharta calycina	45	0·5	
	Conostylis aculeata	30	0·5	
	Sonchus oleraceus	40	0·1	
	Caladenia flava			
	Hakea amplexicaulis			
	Euc marginata			
	Bank attenuata			
	Quinetia urvillei			
	Asteridea pulverulenta			
	Olearia axillaris			
	Conostephium pendulum			
	Luzula meridionalis			
	Calyptandra arbutiflora			
55	~~[illegible]~~ Isolepis marginata			
	Sonchus asper			

PTO

acacia cochlearis
3*Rumex crispus *Rumex ?conglomeratus
* Geranium molle
* Arctotheca calendula
Melaleuca thymoides
Pyrochis nigricans
Thelymitra sp.
Drosera erthyrorhiza
Lygima barbata
Rhodanthe ~~cotula~~ citrina
Kennedia prostrata
Lygania serpyllifolia
Phlebocarya ciliata
Pterostylis vitata
Adenanthos meisneri
Burchardia umbelata
Hypolaena exsulca
Anigo mangleisii subsp. mangleissii opps
Lomandra purpurea
Desmo fasiculatus
Desmo flexuosus

Vegetation Survey Sheet

Project:	Initials:	Site No: 8.2
Date: 24/9	Film No: 1	Photo No: 23 + 24

Location: Site 8	GPS: 381 263
depression Sth of sandpit +	6316 042
Nth of wetland (1 in 100 yr)	

Topography: hollow depression Br : R : US : [✓ MS] : LS : DL : MiC : MaC ([illegible])	Aspect: N : [✓ NW] : W : SW : S : SE : E : NE : N/A
Outcropping: .... Num : Mod : Occ	Litter Cover (%): .... Litter Type: 0.1 Logs 5 Twigs 30 Leaves
Soil Ratio: ..... Clay ..... Silt ..... Sand	Bare Ground (%): 0
Soil Colour: Sandy	Age since last fire: > 5
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description:	Woodland of Cory + Euc marg
	over Tall Shrubland of Jack + Kunz + Agonis
	over Sedgeland of Phlebocarya

Condition 3-4

ent to
ew
Brown

Coll. No.	Species	Ht (cm)	%A	%D
	Corumbia coloph	12 m	30	
	Jacksonia furcellata	6m	15	
	Kunzea vestita	5m	25	
	Agonis flexuosa	250cm	3	
	Xanthorhea brunonis	80	5	
56	Caladenia big white	20	0.1	
	Luzula meridionalis	20	0.1	
	Phlebocarya ciliata	30	5	
	Sowerbaea multi	30	1	
	Hibbertia hypericoides	30	4	
	Corynotheca micrantha	40	2	
	Chaemescilla corym	30	1	
	Caladenia flava	30	0.1	
	Lepido squamatum	30	0.5	
	Dauc gloch	5	0.5	
	Sonchus oleraceus	5	0.5	
57	Bilardiera laxiflora	CR	0.1	

Coll. No.	Species	Ht (cm)	%A	%D
	Ehrharta longiflora	30	2	
	Conostylis aculeata	20	2	
	*Hypo glab	5	0.5	
	*Briza maxima	5	0.5	
	Phyllanthus calycinus	30	0.1	
	Trifolium campestre	10	5	
	Bossiaea eriocarpa	10	0.5	
	Leucopogon capitatus	40	0.5	
	Kennedia prostrata	5	0.3	
	Drosera ~~sp~~ menziesii	5	0.1	
	Hypolaena exsulca	10	0.1 [illegible]	
	Phebalium spicatum	30	0.2	
	Ursinia anthemoides	20	0.5	
	Hemiandra pungens	10	0.1	
	Stylidium brunonianum	5	0.01	
US 60	Patersonia ~~occidentalis~~ umbrosa subsp. umbrosa	10	0.01	
	Xanthosia pusilla	10	0.1	
	Pterostylis vittata	10	0.1	
	Tetraria octandra	20	0.01	
	Leucopogon bromiliifolius	10	1	
	Thysanotus multiflorus	20	0.1	
	Burchardia umbellata	20	0.1	
	Persoonia saccata	30	0.01	
	*Avena barbata	20	5	
58	~~Forest Rice Grass~~ Poaceae sp.	20	0.1	
	~~Ursinia [illegible]~~	~~40~~		
	Lagenophora huegelii	5	0.1	
	Euc marg seedlings	5cm	0.1	
	Cor calo "	5cm	1	
	Euc marg	4m	0.5	
	Ehrharta calycina	40	0.1	
59	Senecio sp.	10	0.01	
	*Romulea rosea	10	0.1	
EB 2	*Oxalis corniculatata	10	0.01	
	Cassia micrantha	10	0.01	
	Hakea prostrata			

Laxmannia [illegible] ([illegible])

Mac reid
Banksia attenuata
Synaphea spinulosa
Astroloma pallidum

Vegetation Survey Sheet

Project:	Initials:	Site No: 8.3
Date:	Film No: |	Photo No: 25 + 26

Location: Wetland	GPS: 381 756
	6315 928

Topography: Wetland Br : R : US : MS : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : [✓ S] : SE : E : NE : N/A
Outcropping: .... Num : [✓ Mod] : Occ	Litter Cover (%): .... Litter Type: .-. Logs 5% Twigs 15% Leaves
Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand	Bare Ground (%): -
Soil Colour:	Age since last fire: > 5
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description:	Closed Woodland of Euc rudis + Mel raph
	over Tall Shrubland of 62 Mel
	over Sedgeland / herbland of [illegible]

Condition 3-4

Coll. No.	Species	Ht (cm)	%A	%D
	Euc rudis	14m	70	
	Mel raphio	16m	15	
62	~~Kunzea vestita~~ Melaleuca	450	50	M. incana subsp. incana
	Gahnia trifida	180	40	
	~~Gahnia~~ Baumea juncea	60	10	
	Centella cordifolia	20	70	
61	~~Apiaceae divided~~ Apium prostratum subsp. prostratum	30	1	
	Watsonia	60	5	
	~~G~~ Samolus junceus	80	0.1	
	Juncus ~~pallidus~~ ✓✓ STET	100	20	
	~~[illegible]~~ Lobelia alata	30	0.1	
63	Juncus ~~[illegible]~~ kraussii ssp. australiensis	60	0.1	
	*Cynodon dactylon	40	0.01	
opps	Corymbia calophylla			
	Astartea affin fasic			
	Pteridium esculentum			
	Acacia pulchella			

Vegetation Survey Sheet.xls Cas obesa

Vegetation Survey Sheet

Opps

Coll. No.	Species	Ht (cm)	%A	%D
	Viminaria juncea			
	Oxalis glabra			
64	Melaleuca ~~globosa~~	viminea		

Vegetation Survey Sheet

Project:	Initials:	Site No: 3.4
Date: 21/12/02	Film No: 1	Photo No: 25+26

Location:	GPS: 381 426
	6 316 295

Topography: river fringe Br : R : US : MS : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : [✓ E] : NE : N/A
Outcropping: .... Num : Mod : Occ	Litter Cover (%): .... Litter Type: ..... Logs ..... Twigs ..... Leaves
Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand Soil Colour:	Bare Ground (%): Age since last fire: > 5
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Fringing Brunswick River - relatively Open Woodland of Cor. calo, Euc rud + Cas ob over Heathland

Condition 5-6

Coll. No.	Species	Ht (cm)	%A	%D
	Casuarina obesa	6m	10	
	Euc rudis	10m	1	
	Cor calo	12m	10	
	Baumea juncea	80cm	5	
	[illegible] ssp [illegible]	[illegible]	[illegible]	40%
	[illegible]	5m	2	
?	Oxalis pes-caprae	10	2	
	Oxalis glabra	10	2	
	[illegible]	40	0.1	
	[illegible]	30	0.1	
2	Conostylis [illegible] ssp. aculeata	20	0.1	
	[illegible]	20	0.01	
	Acacia pulchella	150	1	
	Astartea fascicularis	300	0.5	
64	Melaleuca viminea	400	0.5	
	Hakea prostrata			
	Acacia saligna			

Vegetation Survey Sheet

Melinis

5/1/95

Coll. No.	Species	Ht (cm)	%A	%D
	Panicum decompositum			
	Acacia salicina			
	[illegible]			
	Acacia flav			
	[illegible] sp			dead

Vegetation Survey Sheet

GDA/WGS '84

Project:	Initials:	Site No: 7A·1
Date: 25/9/02	Film No: 2	Photo No: 1, 2 + 3

Location: Myallup - foredune	GPS: 377 628
	6335 625
Condition 3–4	

Topography: foredune Br : R : US : MS : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : S : [✓ SE] : E : NE : N/A
Outcropping: .... Num : Mod : Occ	Litter Cover (%): .... Litter Type: ..... Logs 2 Twigs 4 Leaves
Soil Ratio: ..... Clay ..... Silt ..... [✓ Sand] Soil Colour:	Bare Ground (%): 80% bare sand Age since last fire:
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Grassland on face of foredune

'01 dunes - stabilisation ←

Coll. No.	Species	Ht (cm)	%A	%D
	Euphorbia paralias	40	3	
	Pelargonium capitatum	30	3	
	Spinifex hirsutus	30	0.5	
	*Marram grass (planted) *Ammophila arenaria	70	10	
	Isolepis nodosus	10	0.1	
	Senecio lautus	5	0.01	
46	Carpobrotus virescens	5	1	
	Trachyandra divaricata	40	0.5	
	Scaevola crassifolia	20	0.5	
37	Beach grass? *Rostraria cristata	5	0.1	
	Oleania axillaris	70	3	
	Acacia cyclops			½ dead

pps

Vegetation Survey Sheet

Project:	Initials:	Site No: 7A · 2
Date: 25/9/02	Film No: 2	Photo No: 4 + 5

Location: Quindalup Dune - Mid dune	GPS: 377 750
	6335 675
Condition 3	

Topography: Br : R : [✓ US] : MS : LS : DL : MiC : MaC	Aspect: N : [✓ NW] : W : SW : S : SE : E : NE : N/A
Outcropping: Num : Mod : Occ	Litter Cover (%): Litter Type: ..... Logs 2 Twigs 5 Leaves
Soil Ratio: ..... Clay ..... Silt ..... [✓ Sand]	Bare Ground (%): 10 %
Soil Colour:	Age since last fire:
Pebble Type: Angular : [✓ Subangular] : Rounded	Pebble Size: <1mm : <1cm : [✓ ≤10cm] : <20cm : >20cm

or Tall Shrubland

Vegetation Description: ?? Low Open Woodland of Agonis + Jack over Dense Shrubland of Alyxia over Grassland.

Coll. No.	Species	Ht (cm)	%A	%D
	Agonis flex	200	8	
	Olearia axillaris	200	8	
	Alyxia buxifolia	150	30	
	Acanthocarpos preissii	120	25	
	Trachyandra divaricata	40	3	
23	Pink Weed Parietaria debilis	10	3	
	Crassula colorata ssp c	5	1	
	Sonchus oleraceus	15	0.01	
31	Calandrinia liniflora	10	0.5	
34	Triglochin ~~[illegible]~~ calcitrapa	10	0.01	
	Avena barbata	20	0.01	
EB 47	Poa ~~small~~ porphyroclados	10	0.5	
	Heliophila pusila	10	0.01	
	Sagina apetala	10	0.01	
	Daucus glochi	10	0.3	
	Conostylis aculeata	30	0.3	
	Acacia littorea	80	5	

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
	Hardenbergia comp.	CR	2	
	Rhagodia baccata	80	1	
	Scaevola crassifol	120	0.5	
	[illegible]	10	0.01	
	Thysanotus patersonii	CR	0.1	
	Jacksonia furcellat.	200	0.5	
46	Carpobrotus virescens	20	1	
	Bromus arenarius	20	0.01	
EB 65	Cuscuta epithymum	CR	0.5	
	Spyridium globulosum	120	0.5	
	Senecio lautus	20	0.3	
	Diplolaena dampiera			
	Hibbertia cuneifolius			
E51	Pterostylis ~~nana~~ sp. "Slender snailhead"			
2	*Oxalis corniculata			
	Trachymene pilosa			
	Leucopogon parvif			
	Ehrharta calycina			
	Cassytha racemosa			
	Acacia cyclops			
	Ozothamnus cordatus			
	Hemiandra pungens			
	[illegible]			
	Phyllanthus calycinus			
	Santalum acuminatum			
	Lepidosperma gladiatum			
	Myoporum insulare			

Vegetation Survey Sheet

Project:	Initials:	Site No: 7A·3
Date: 25/9/02	Film No: 2	Photo No: 6+7

Location: Myalup - Spearwood

GPS: 377 860
6335 749

Condition 2 in quad, ~~[illegible]~~ outside 2-4 (some thick Trachyandra

Topography: Br : R : [✓ US] : MS : LS : DL : MiC : MaC

Aspect: N : NW : W : SW : S : SE : E : NE : [✓ N/A]

Outcropping: ....

Num : Mod : Occ

Litter Cover (%): ....

Litter Type: ..... Logs 10 Twigs 50 Leaves

Soil Ratio: ..... Clay ..... Silt ..... [✓ Sand]

Soil Colour:

Bare Ground (%): 2%

Age since last fire:

Pebble Type: ....

Angular : Subangular : Rounded

Pebble Size: ....

<1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: ~~Tall~~ Woodland of Agonis + Euc gomph - (mature, other sim veg ≈ Anthocercis was recently burnt)

over Shrubland of Spyrid + Alyx

Coll. No.	Species	Ht (cm)	%A	%D
	Euc gomphotobium	10m	60	
	Agonis flexuosa	600	5	
	Spyridium globulosum	300	30	
	Alyxia buxifolia	150	30	
	Diplolaena dampieri	120	2	
	Geranium molle	10	0.01	
31	Calandrinia liniflora	5	0.05	
	Hardenbergia comp.	CK	0.1	
	Daucus gloch	5	0.1	
	Olearia axillaris	160	5	
EB 66	*Senecio ~~[illegible]~~ diaschides	30	0.1	
	Acanthocarpus preissii	50	1	
	Caladenia latifolia	20	1	
	Thysanotus patersonii	CK	0.01	
	Pelargonium [illegible]	10	0.01	
	Avena barbata	10	0.01	
67	~~Grass [illegible]~~	10	0.01	

Carex preissii

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
23	~~Pink weed~~ Parietaria debilis	5	0.5	
5	Conostylis aculeata ssp aculeata	20	0.1	
68	Hydrocotyle tetragonocarpa	5	4	
	Duophila pusila	5	0.01	
	Trachymene pilosa	5	0.01	
	Phyllanthus calycinus	50	0.1	
34	Triglochin ~~[illegible]~~ calcitrapa	5	0.01	
~~34~~	Romulea rosea	10	0.5	
EB1	Pterostylis ~~[illegible]~~ sp. "slender snailhead"	5	0.01	
	Trachandra divari	30	0.01	
2	*Oxalis corniculata	5	2	
	Myoporum insulare	120	1	
	Rhagodia baccata	100	1	
	Leucopogon parviflorus	100	0.5	
	Sonchus oleraceus	5	0.01	
	Acacia littorea			
26	~~Waitzia yellow~~ Rhodantle citrina			
	Dischisma capitatum			
69	Zygophyllum simile			
43	Poa ~~tall~~ porphyroclados			
	Hibbertia cuneifo			
	Arctotheca calendula			
	Corybas sp. (orchid lf)			
	Lepidosperma gladiata			
70	~~Podolepis sp.~~ Podotheca angustifolia			
	Hemiandra pungens			
	Santalum acuminatum			
	Cassytha racemosa			

Vegetation Survey Sheet

Project:	Initials:	Site No: 73.1
Date: 25/	Film No: 2	Photo No: 8 + 9

Location:	GPS: 379 044
73 - Sth of Binningup - Nth end	6378 468
before cot' [illegible]	

Topography: Br : R : US : MS : [✓ LS] : [✓ DL] : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : [✓ N/A]
Outcropping: / Num : Mod : Occ	Litter Cover (%): Litter Type: ..... Logs 5 Twigs 5 Leaves
Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand Soil Colour:	Bare Ground (%): 0 Age since last fire:
Pebble Type: / Angular : Subangular : Rounded	Pebble Size: / <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Melaleuca raph + viminea over Juncus

Condition 5 - 6 (If EB73 is weed then: 6 if not: 5)

∴ Condition = 5

Coll. No.	Species	Ht (cm)	%A	%D	
	Mel raph	6m	30		1
[illegible]	Mel viminea	6m	30		2
[illegible]					
72	Triglochin huegelii	20	2		3
73	Juncus ~~? weed~~ kraussii ssp. australiensis	150	70		
	Gahnia trifida	2m	1		4
	Couch *Cynodon dactylon	20	20		
75	Sw ~~Clover~~ *Melilotus siculus	10	5		
17	~~[illegible]~~ Centella asiatica	5	5		5
74	Juncus ~~?capitatus~~ oxycarpus	20	1		
	+ other pasture spp.	—	10		
	Cassytha racemosa	CR	0.1		6

[illegible]

Vegetation Survey Sheet

Bronwyn - 04[illegible] 8[illegible] 404

Project:	Initials:	Site No: 7B·2
Date: 25/9/07	Film No: 2	Photo No: 10 + 11

Location: - Nth end
- Swamp of Juncus
Sth end sparser Juncus + drier + becoming

GPS:

Topography: Br : R : US : MS : LS : [✓ DL] : MiC : MaC

Aspect: N : NW : W : SW : S : SE : E : NE : N/A

Outcropping: ....
Num : Mod : Occ

Litter Cover (%):
Litter Type: ..... Logs ..... Twigs 5 Leaves

Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand

Soil Colour:

Bare Ground (%):

Age since last fire:

Pebble Type: ....
Angular : Subangular : Rounded

Pebble Size: ....
<1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Juncus Sedgeland of Swamp c̄ clumps of others eg Schoenus or Typha
- V. degraded by cattle grazing, v. trodden
Condition 5-6 see comments 4 site 7B·1

Coll. No.	Species	Ht (cm)	%A	%D
76	Juncus ~~[illegible]~~ kraussii ssp. australiensis	150	80	
72	[illegible] huegelii	40	5	
74	*Juncus ~~sp.~~ oxycarpus	30	5	
75	~~[illegible]~~ *Melilotus siculus	5	5	
71	~~Carex~~ Bulboschoenus caldwellii	20	~~[illegible]~~ 2	7
15	~~[illegible]~~ Baumea juncea ~~Gahnia trifida~~	50	2	8
	~~Pampas grass~~ *Cortaderia selloana	[illegible] m	2	
	*Typha orientalis	190	2	
	*~~Couch~~ Cynodon dactylon	20	10	
	*~~Guildford grass~~ Romulea rosea	10	3	
	*Plantago lanceolata	50	0.1	
	Cirsium vulgare	20	0.1	
	Cow pats!	– !	100	
	Parentucellia viscosa			
	*Hordeum ~~[illegible]~~ vulgare			
	Holcus lanatus			
	Zantedeschia aeth[illegible]			

Vegetation Survey Sheet.xls

* [illegible]

* [illegible]
* Swales [illegible]
* [illegible] Key [illegible]

* 20% of survey [illegible]
* wetland as a mosaic

[illegible] Undertake [illegible] management of [illegible]
— so far

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
	Cyperus [illegible]			
	Iridaceae [illegible] *Sparaxis bulbifera ✓✓			
	~~Dock [illegible]~~ Picris squarrosa			
74	*Ro[illegible] ~~[illegible] totona~~ muricatus			
75	~~Small [illegible] Callitriche~~ *Callitriche stagnalis			
[illegible]	~~[illegible]~~ Meeboldina coangustata			9
79	~~[illegible]~~ *Mentha x piperita			
80	Cyperus congestus			
81	Isolepis ~~[illegible]~~ setiformis			10
	*Cotula coronopifolia			11
	Vicia sativa			
	Mels rhaphiophylla			
	- large open patch of dead Mels			
	- becoming saline			

[illegible] in Mels.

Vegetation Survey Sheet

Project:	Initials:	Site No: 78·3
Date: 25/9/02	Film No: 2	Photo No: 12 + 13

Location: 5th end of site 78,	GPS: 379 253
just Nth of the Estuary's Nth extent	6326178

Topography: Swamp Br : R : US : MS : LS : [✓ DL] : [✓ MiC] : [✓ MaC]	Aspect: N : NW : W : SW : S : SE : E : NE : [✓ N/A]
Outcropping: .... Num : Mod : Occ	Litter Cover (%): 10% Litter Type: ..... Logs .1%.Twigs 9% Leaves
Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand	Bare Ground (%): 3~~4~~0% — black mud
Soil Colour:	Age since last fire:
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Sedgeland of Halosarcia + Juncus.

Condition = 2 in quadrat, outside down to 6

115

Coll. No.	Species	Ht (cm)	%A	%D
82	Halosarcia lepidosperma	20	~~55~~ 70	
	~~Halosarcia~~	~~20~~	~~5~~	
73	Juncus kraussii ssp. australiensis	80	5	
	*Cotula coronopifolia	5	0·01	
85	Triglochin ~~[illegible]~~ mucronata	10	0·01	
83	Halosarcia indica ssp. bidens			
84	Triglochin ~~long spikes~~ muelleri			
86	Water weed centrolepis aristata ?Isoetes drummondii in open water			
75	~~Trifolium~~ Melilotus siculus			
76	Juncus ~~capitatus~~ oxycarpus			
	Pasture weeds			
	Couch *Cynodon dactylon			
87	~~Grass~~ *Eragrostis curvula			
	*Romulea rosea			
61	~~Apiaceae~~ Apium prostratum subsp. prostratum			
	~~Cyperus~~ Isolepis marginatus			
	*Hordeum salina			

Coll. No.	Species	Ht (cm)	%A	%D
80	~~Trifolium flowering~~ *Mililotus siculus			
	~~Iridaceae cream flw~~ *Sporaxis bulbifera			
71	~~Carex~~ Bulboschoenus caldwellii			
89	~~Haira headed grass~~ *Cynosurus echinatus			
	Hordeum valgare			
90	~~[illegible]~~ Caryophylaceae spergula arvensis			
	Chenopodium sp seedlings			

Vegetation Survey Sheet

Project:	Initials:	Site No: 5.1
Date: 25/9/02	Film No: 2	Photo No: 16 + 17

Location: SAC 5 Sth side of creek that is Sth of Brunswick R	GPS: 384 050 6319 957

Topography: Br : R : US : MS : [✓ LS] : DL : [✓ MiC] : MaC	Aspect: slightly [✓ N] : NW : W : SW : S : SE : E : NE : N/A
Outcropping: Num : [✓ Mod] : Occ	Litter Cover (%): Litter Type: 10 Logs 20 Twigs 30 Leaves
Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand	Bare Ground (%): 10%
Soil Colour:	Age since last fire:
Pebble Type: Angular : [✓ Subangular] : Rounded	Pebble Size: <1mm : [✓ <1cm] : <10cm : <20cm

5

Vegetation Description: * lots of dead blackberry, someone managing/poisoning
* cleared, lots of seedlings making ID of annual spp. difficult
* Most E. rudis look v. unhealthy
Woodland of Euc rudis + Mel raph
Condition 6 coz of Arum lily + blackberry, but have attempted to control

Coll. No.	Species	Ht (cm)	%A	%D
	Euc rudis ✓	12m	20	
	Mel raphiophylla ✓	8m	20	
62	Melaleuca ~~hairy lf~~ incana subsp. incana ✓	3m	2	
	Cassytha racemosa ✓	Ck	0.1	
	Zanthodaescia arum	40	0.5	
91	~~Opp leaves~~ Opercularia hispidula ✓	5	5	
76	Small lf water *Callitriche stagnalis ✓	1	0.01	
77	Ranunculus muricatus ✓	10	0.01	
92	~~Carex~~ Cyperus congestus ✓	30	0.1	
	~~Blackberry~~ *Rubus ulmifolius ✓	160	0.1	
	Trachyandra divaricata ✓	30	0.01	
78	Mint *Mentha x piperita ✓	5	0.01	
93	Grass Carex appressa ✓			
	*Couch Cynodon dactylon ✓			
	Watsonia meriana var. bulbillifera ✓			
< 90	Isolepis ~~[illegible]~~ setiformis ✓			
	Geranium molle ✓			

opp. 5

*Condition done on disturbance (incl. weeds) has to be 6 coz of weed invasion but density ht + condition of Mels – rudis gets eaten by insects

Vegetation Survey Sheet.xls

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
17	~~Centaurea~~ Centella asiatica ✓			
18	Cyperus ~~A stem~~ congestus ✓			
	Astartea fasicularis ✓			
72	Trialochin huegelii ✓			
	~~[illegible]~~			
94	~~Bulb based grass~~ *Iridaceae sp. ✓			
	~~Dock~~ Picris squarrosa ✓			

Vegetation Survey Sheet

Project:	Initials:	Site No: 5.2 releve
Date: 25/9/02	Film No: 2	Photo No: 18+19

Location: ~~[illegible]~~ swamp

GPS: —
50m Nth of 5.1

Topography: swamp
Br : R : US : MS : LS : DL : MiC : [✓ MaC]

Aspect:
N : NW : W : SW : S : SE : E : NE : [✓ N/A]

Outcropping:
Num : Mod : Occ

Litter Cover (%): —
Litter Type: ..... Logs ..... Twigs ..... Leaves

Soil Ratio: ....[✓ Clay] ..... Silt ..... Sand
Soil Colour:

Bare Ground (%): 29% water

Age since last fire: —

Pebble Type:
Angular : Subangular : Rounded

Pebble Size:
<1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Closed Forest of Mel raph (over nothing!)
* in open water

* conserve it coz its a wetland, not for condition. trees are great but understory non-existent

Coll. No.	Species	Ht (cm)	%A	%D
	Mel raph	16m	70%	
	Euc rudis	16m	1	
	Couch *Cynodon dactylon	5	5	
	Zantedeschia arum			
	Blackberry *Rubus ulmifolius			

* condition as for 5.1 = 6

conservation value good
bad condition

Vegetation Survey Sheet

Project:	Initials:	Site No: 5.3 redone
Date: 25/	Film No: 2	Photo No: 20 + 21

Location: wooded fringe on Sth boundary of site 5.3 ('looks narrow on photo')	GPS: 384 381 / 6319964

Topography: Br : R : US : MS : [✓ LS] : DL : MiC : MaC	Aspect: [✓ N] : NW : W : SW : S : SE : E : NE : N/A
Outcropping: Num : Mod : Occ	Litter Cover (%): 10 Litter Type: 1 Logs 3 Twigs 6 Leaves
Soil Ratio: [✓ Clay] ..... Silt ..... Sand Soil Colour:	Bare Ground (%): 1%
	Age since last fire:
Pebble Type: Angular : Subangular : Rounded	Pebble Size: <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Wood. of E. rudis over Agonis + Mel (w scattered Cor cal over weeds & occasional Baumea articulata
Condition 6 - surrounded by ~~pasture~~ parkland

Coll. No.	Species	Ht (cm)	%A	%D
	Euc rudis	20m	30	
	Mel raphioph	16m	10	
	Agonis ~~[illegible]~~flex	12m	5	
	Agonis linearifolia	6m	1	
	Acacia pulchella	160	1	
	over pasture + weeds			
	eg Arum zantedescia ...	50	2	
	Astartea fasic	100	0.01	
	Hardenbergia comp	CK	0.1	
	Juncus kraussii ssp. australiensis	60	3	
	~~Reed w divisions up stem~~			
	Baumea articulata	60	3	
	Pteridium esc	60	1	
	~~Blackberry~~ *Rubus ulmifolius	60	1	
	Corymbia calophylla	20m	1	
	Typha ~~orientalis~~? domingensis	80	0.5	
92	Triglochin huegelii			

approx ? native →

Minor [illegible] reason to conserve; many weeds (w/ hoping [illegible] degraded) but not sustainable w/out work.

Vegetation Survey Sheet.xls

some reasonable condition sedgeland in [illegible] of patches
rest is v. weedy

Vegetation Complex	Original Area (ha) in			Present Extent (ha)			Reserved (ha)		
	Swan Coastal Plain	Greater Bunbury Region Scheme	Bunbury Constrained Area	Swan Coastal Plain	Greater Bunbury Region Scheme	Bunbury Constrained Area	Swan Coastal Plain (Secure Tenure)	Greater Bunbury Region Scheme (ROS)	Bunbury Constrained Area (ROS)
Foothills (Ridge Hill Shelf)									
Forrestfield Complex	20,169	2,056		3,518	475		61	144	
Cartis Complex	7,541	4,626		5,479	3,104			65	
Pinjarra Plain									
Abba Complex	53,387	9,264		3,198	463		77		
Guildford Complex	92,497	33,254	572	4,662	1,470	75	143	121	2
Swan Complex	15,783	5,646	917	2,454	906	196		164	116
Dardanup Complex	9,504	5,201		754	335			64	
Serpentine River Complex	19,856	6,990		2,103	1,129		558	607	
Combinations of Bassendean Dunes / Pinjarra Plains									
Cannington Complex	16,661	1,487		1,659	68		883	6	
Southern River Complex	57,970	16,070	3,862	11,501	3,320	1,247	882	631	292
Bassendean Dunes									
Bassendean Complex-Central And South	87,626	23,970	928	23,635	9,430	187	572	720	22
Spearwood Dunes									
Karrakatta Complex-Central And South	51,620	11,686	3,040	14,811	6,091	1,617	1,256	1,587	338
Cottesloe Complex-Central And South	45,300	1,334		18,474	602		3,955	455	
Ludlow	8,673	1,190		2,112	465		772	160	
Quindalup Dunes									
Quindalup Complex	54,476	6,236	993	18,000	2,531	354	2,309	1,102	187
Marine (Estuarine and Lagoonal) Deposits									
Vasse Complex	11,196	3,730	814	3,287	857	56	1,228	454	32
Yoongarillup Complex	26,580	13,448	2,545	11,387	4,437	725	3,632	1,084	151

As a percentage of the original area on the Swan Coastal Plain

Vegetation Complex	% of each remaining			% in secure tenure		
	on the SCP	in the GBRS area	in Bunbury Constrained Area	on the SCP	Combined ROS	
					in the GBRS area	in Bunbury Constrained Area
Foothills (Ridge Hill Shelf)						
Forrestfield Complex	17.4%	2.4%	0.0%	0.3%	0.7%	0.0%
Cartis Complex	72.7%	41.2%	0.0%	0.0%	0.9%	0.0%
Pinjarra Plain						
Abba Complex	6.0%	0.9%	0.0%	0.1%	0.0%	0.0%
Guildford Complex	5.0%	1.6%	0.1%	0.2%	0.1%	0.0%
Swan Complex	15.6%	5.7%	1.2%	0.0%	1.0%	0.7%
Dardanup Complex	7.9%	3.5%	0.0%	0.0%	0.7%	0.0%
Serpentine River Complex	10.6%	5.7%	0.0%	2.8%	3.1%	0.0%
Combinations of Bassendean Dunes / Pinjarra Plains						
Cannington Complex	10.0%	0.4%	0.0%	5.3%	0.0%	0.0%
Southern River Complex	19.8%	5.7%	2.2%	1.5%	1.1%	0.5%
Bassendean Dunes						
Bassendean Complex-Central And South	27.0%	10.8%	0.2%	0.7%	0.8%	0.0%
Spearwood Dunes						
Karrakatta Complex-Central And South	28.7%	11.8%	3.1%	2.4%	3.1%	0.7%
Cottesloe Complex-Central And South	40.8%	1.3%	0.0%	8.7%	1.0%	0.0%
Ludlow	24.3%	5.4%	0.0%	8.9%	1.8%	0.0%
Quindalup Dunes						
Quindalup Complex	33.0%	4.6%	0.7%	4.2%	2.0%	0.3%
Marine (Estuarine and Lagoonal) Deposits						
Vasse Complex	29.4%	7.7%	0.5%	11.0%	4.1%	0.3%
Yoongarillup Complex	42.8%	16.7%	2.7%	13.7%	4.1%	0.6%

As a percentage of the Original relevant area

Vegetation Complex	% of each remaining			% in secure tenure		
	on the SCP	in the GBRS area	in Bunbury Constrained Area	on the SCP	Combined ROS	
					in the GBRS area	in Bunbury Constrained Area
Foothills (Ridge Hill Shelf)						
Forrestfield Complex	17.4%	23.1%	0.0%	0.3%	7.0%	0.0%
Cartis Complex	72.7%	67.1%	0.0%	0.0%	1.4%	0.0%
Pinjarra Plain						
Abba Complex	6.0%	5.0%	0.0%	0.1%	0.0%	0.0%
Guildford Complex	5.0%	4.4%	13.2%	0.2%	0.4%	0.4%
Swan Complex	15.6%	16.0%	21.4%	0.0%	2.9%	12.6%
Dardanup Complex	7.9%	6.4%	0.0%	0.0%	1.2%	0.0%
Serpentine River Complex	10.6%	16.1%	0.0%	2.8%	8.7%	0.0%
Combinations of Bassendean Dunes / Pinjarra Plains						
Cannington Complex	10.0%	4.6%	0.0%	5.3%	0.4%	0.0%
Southern River Complex	19.8%	20.7%	32.3%	1.5%	3.9%	7.6%
Bassendean Dunes						
Bassendean Complex-Central And South	27.0%	39.3%	20.2%	0.7%	3.0%	2.3%
Spearwood Dunes						
Karrakatta Complex-Central And South	28.7%	52.1%	53.2%	2.4%	13.8%	11.0%
Cottesloe Complex-Central And South	40.8%	45.1%	0.0%	8.7%	34.1%	0.0%
Ludlow	24.3%	39.1%	0.0%	8.9%	13.5%	
Quindalup Dunes						
Quindalup Complex	33.0%	40.6%	35.7%	4.2%	17.7%	18.9%
Marine (Estuarine and Lagoonal) Deposits						
Vasse Complex	29.4%	23.0%	6.9%	11.0%	12.2%	3.9%
Yoongarillup Complex	42.8%	33.0%	28.5%	13.7%	8.1%	5.9%

As a percentage of the original area on the Swan Coastal Plain

	10 4/1	11 5/1	12 6/1	13 7/1	14 8/1	15 9/1
Vegetation Complex	**% of each remaining**			**% in secure tenure**		
	on the SCP	**in the GBRS area**	**in Bunbury Constrained Area**	**on the SCP**	**Combined ROS**	
					in the GBRS area	**in Bunbury Constrained Area**
Foothills (Ridge Hill Shelf)						
Forrestfield Complex	17.4%	2.4%	0.0%	0.3%	0.7%	0.0%
Cartis Complex	72.7%	41.2%	0.0%	0.0%	0.9%	0.0%
Pinjarra Plain						
Abba Complex	6.0%	0.9%	0.0%	0.1%	0.0%	0.0%
Guildford Complex	5.0%	1.6%	0.1%	0.2%	0.1%	0.0%
Swan Complex	15.6%	5.7%	1.2%	0.0%	1.0%	0.7%
Dardanup Complex	7.9%	3.5%	0.0%	0.0%	0.7%	0.0%
Serpentine River Complex	10.6%	5.7%	0.0%	2.8%	3.1%	0.0%
Combinations of Bassendean Dunes / Pinjarra Plains						
Cannington Complex	10.0%	0.4%	0.0%	5.3%	0.0%	0.0%
Southern River Complex	19.8%	5.7%	2.2%	1.5%	1.1%	0.5%
Bassendean Dunes						
Bassendean Complex-Central And\South	27.0%	10.8%	0.2%	0.7%	0.8%	0.0%
Spearwood Dunes						
Karrakatta Complex-Central And\South	28.7%	11.8%	3.1%	2.4%	3.1%	0.7%
Cottesloe Complex-Central And\South	40.8%	1.3%	0.0%	8.7%	1.0%	0.0%
Ludlow	24.3%	5.4%	0.0%	8.9%	1.8%	0.0%
Quindalup Dunes						
Quindalup Complex	33.0%	4.6%	0.7%	4.2%	2.0%	0.3%
Marine (Estuarine and Lagoonal) Deposits						
Vasse Complex	29.4%	7.7%	0.5%	11.0%	4.1%	0.3%
Yoongarillup Complex	42.8%	16.7%	2.7%	13.7%	4.1%	0.6%

Vegetation Complex	Original Area (ha) in			Present Extent (ha)			Reserved (ha)			
	1 Swan Coastal Plain	2 Greater Bunbury Region Scheme	3 Bunbury Constrained Area	4 Swan Coastal Plain	5 Greater Bunbury Region Scheme	6 Bunbury Constrained Area	7 Swan Coastal Plain (Secure Tenure)	Greater Bunbury Region Scheme (ROS) 8	Bunbury Constrained Area (ROS) 9	
Foothills (Ridge Hill Shelf)										10%
Forrestfield Complex	20,169	2,056		3,518	475		61	144		
Cartis Complex	7,541	4,626		5,479	3,104			65		
Pinjarra Plain										
Abba Complex	53,367	9,264		3,199	463		77			
Guildford Complex	92,497	33,294	572	4,662	1,470	75	143	121	2	57
Swan Complex	15,783	5,646	917	2,454	906	196		164	116	91
Dardanup Complex	9,504	5,201		754	335			64		
Serpentine River Complex	19,856	6,990		2,103	1,129		558	607		
Combinations of Bassendean Dunes / Pinjarra Plains										
Cannington Complex	16,661	1,487		1,659	68		883	6		
Southern River Complex	57,979	16,070	3,862	11,501	3,320	1,247	882	631	292	380
Bassendean Dunes										
Bassendean Complex-Central And\South	87,626	23,970	928	23,635	9,430	187	572	720	22	92
Spearwood Dunes										
Karrakatta Complex-Central And\South	51,620	11,686	3,040	14,811	6,091	1,617	1,256	1,587	336	304
Cottesloe Complex-Central And\South	45,300	1,334		18,474	602		3,955	455		
Ludlow	8,673	1,190		2,112	465		772	160		
Quindalup Dunes										
Quindalup Complex	54,476	6,236	993	18,000	2,531	354	2,309	1,102	187	998
Marine (Estuarine and Lagoonal) Deposits										
Vasse Complex	11,196	3,730	814	3,287	857	56	1,228	454	32	81
Yoongarillup Complex	26,580	13,448	2,545	11,367	4,437	725	3,632	1,084	151	254

10%.

As a percentage of the Original relevant area

Vegetation Complex	16 4/1	17 5/2	18 6/3	19 7/1	20 8/2	21 9/3
	% of each remaining			% in secure tenure		
	on the SCP	in the GBRS area	in Bunbury Constrained Area	on the SCP	Combined ROS in the GBRS area	in Bunbury Constrained Area
Foothills (Ridge Hill Shelf)						
Forrestfield Complex	17.4%	23.1%	0.0%	0.3%	7.0%	0.0%
Cartis Complex	72.7%	67.1%	0.0%	0.0%	1.4%	0.0%
Pinjarra Plain						
Abba Complex	6.0%	5.0%	0.0%	0.1%	0.0%	0.0%
Guildford Complex	5.0%	4.4%	13.2%	0.2%	0.4%	0.4%
Swan Complex	15.6%	16.0%	21.4%	0.0%	2.9%	12.6%
Dardanup Complex	7.9%	6.4%	0.0%	0.0%	1.2%	0.0%
Serpentine River Complex	10.6%	16.1%	0.0%	2.8%	8.7%	0.0%
Combinations of Bassendean Dunes / Pinjarra Plains						
Cannington Complex	10.0%	4.6%	0.0%	5.3%	0.4%	0.0%
Southern River Complex	19.8%	20.7%	32.3%	1.5%	3.9%	7.6%
Bassendean Dunes						
Bassendean Complex-Central And\South	27.0%	39.3%	20.2%	0.7%	3.0%	2.3%
Spearwood Dunes						
Karrakatta Complex-Central And\South	28.7%	52.1%	53.2%	2.4%	13.6%	11.0%
Cottesloe Complex-Central And\South	40.8%	45.1%	0.0%	8.7%	34.1%	0.0%
Ludlow	24.3%	39.1%	0.0%	8.9%	13.5%	
Quindalup Dunes						
Quindalup Complex	33.0%	40.6%	35.7%	4.2%	17.7%	18.9%
Marine (Estuarine and Lagoonal) Deposits						
Vasse Complex	29.4%	23.0%	6.9%	11.0%	12.2%	3.9%
Yoongarillup Complex	42.8%	33.0%	28.5%	13.7%	8.1%	5.9%

Appendix C

Site	*	Species	Ht (cm)	CA (%)	Status
9.1		Picris squarrosa	opp		
9.1	*	Poa annua	opp		
9.1	*	Romulea rosea	opp		
9.1	*	Sherardia arvensis	opp		
9.1	*	Solanum linnaeanum	opp		
9.1		Spyridium globosum	opp		
9.1	*	Trachyandra divaricata	opp		
9.1	*	Trifolium sp.	opp		
9.1	*	Typha orientalis	opp		
9.2		Acacia saligna	20	0.1	
9.2		Carex preissii	10	0.1	
9.2		Conostylis aculeata subsp. aculeata	10	0.1	
9.2	*	Heliophila pusilla	15	0.1	
9.2		Hydrocotyle scutellifera	10	0.1	
9.2		Lepidosperma squamatum	40	0.1	
9.2	*	Romulea rosea	10	0.1	
[illegible]	*	Sonchus oleraceus	10	0.1	
9.2	*	Zantedeschia aethiopica	40	0.1	
9.2		Daucus glochidiatus	5	0.5	
9.2		Hardenbergia comptoniana	cr	0.5	
9.2	*	Hypochaeris glabra	5	0.5	
9.2	*	Oxalis corniculata	5	0.5	
9.2	*	Sagina apetala	10	0.5	
9.2		Thysanotus patersonii	cr	0.5	
9.2		Trachymene pilosa	5	0.5	
9.2	*	Trifolium campestre var. campestre	10	0.5	
9.2		Caladenia latifolia	20	1	
9.2		Rhagodia baccata subsp. baccata	50	1	
9.2		Centella asiatica	5	5	
9.2		Geranium solanderi	5	5	
9.2	*	Piptatherum miliaceum	10	5	
9.2		Hibbertia cuneiformis	200	30	
9.2	*	Trachyandra divaricata	40	30	
9.2		Agonis flexuosa var. flexuosa	1200	40	
9.2		Acacia cochlearis	opp		
[illegible]		Acanthocarpus preissii	opp		
9.2		Asteridea pulverulenta	opp		
9.2		Calandrinia liniflora	opp		
9.2		Clematis linearifolia	opp		
9.2		Crassula colorata var. colorata	opp		
9.2		Diplolaena angustifolia	opp		
9.2		Dischisma capitatum	opp		
9.2	*	Ehrharta longiflora	opp		
9.2		*Eryngium pinnatifidum* subsp. *pinnatifidum ms*	opp		
9.2		Exocarpos sparteus	opp		
9.2		Guichenotia ledifolia	opp		
9.2		Isotropis cuneifolia subsp. cuneifolia	opp		
9.2		Jacksonia furcellata	opp		
9.2		Leucopogon parviflorus	opp		
9.2	*	Lolium perenne	opp		
9.2		Millotia myosotidifolia	opp		
9.2		Olearia axillaris	opp		
9.2	*	Parentucellia viscosa	opp		
9.2		Parietaria debilis	opp		
9.2		Phyllanthus calycinus	opp		
9.2		Ptilotus sericostachyus subsp. sericostachyus	opp		
9.2		Rhodanthe citrina	opp		
9.2		Senecio lautus subsp. maritimus	opp		
9.2		Spyridium globosum	opp		
9.2		Thomasia triphylla	opp		

Appendix C

Site	*	Species	Ht (cm)	CA (%)	Status
9.2		Triglochin muelleri	opp		
9.2		Xanthorrhoea preissii	opp		
9.3		Conostylis aculeata subsp. aculeata	10	0.1	
9.3		Acanthocarpus preissii	30	0.5	
9.3		Daucus glochidiatus	10	0.5	
9.3		Dianella revoluta var. divaricata	40	0.5	
9.3		Eremophila glabra subsp. albicans	30	0.5	
9.3		Hardenbergia comptoniana	cr	0.5	
9.3	*	Sonchus oleraceus	20	0.5	
9.3		Thysanotus patersonii	cr	0.5	
9.3		Lepidosperma squamatum	30	1	
9.3		Rhagodia baccata subsp. baccata	100	1	
9.3		Spyridium globosum	50	2	
9.3	*	Zantedeschia aethiopica	50	2	
9.3	*	Anagallis arvensis var. caerulea	20	3	
9.3		Caladenia latifolia	15	5	
9.3		Geranium solanderi	20	20	
9.3	*	Ehrharta longiflora	10	50	
9.3	*	Trachyandra divaricata	50	50	
9.3		Agonis flexuosa var. flexuosa	1000	60	
9.3		Eucalyptus gomphocephala	2200	75	
9.3		Carex preissii	opp		
9.3		Centella asiatica	opp		
9.3		Diplolaena angustifolia	opp		
9.3		Exocarpos sparteus	opp		
9.3		Lepidosperma gladiatum	opp		
9.3		Millotia myosotidifolia	opp		
9.3		Olearia axillaris	opp		
9.3		Opercularia vaginata	opp		
9.3		Parietaria debilis	opp		
9.3		Phyllanthus calycinus	opp		
9.3		Picris squarrosa	opp		
9.3		Senecio lautus subsp. maritimus	opp		
9.3		Triglochin calcitrapa	opp		
9.3		Triglochin muelleri	opp		
9.4		Isolepis nodosa	10	0.1	
9.4	?*	Lagurus ovatus	20	0.1	
9.4		Lepidosperma gladiatum	50	0.1	
9.4		Senecio lautus subsp. maritimus	10	0.1	
9.4		Hardenbergia comptoniana	20	0.5	
9.4	*	Trachyandra divaricata	40	1	
9.4		Olearia axillaris	50	2	
9.4	*	Pelargonium capitatum	30	5	
9.4	?*	Rostraria cristata	10	5	
9.4	*	Tetragonia decumbens	5	8	
9.4	*	Euphorbia paralias	20	10	
9.4		Scaevola crassifolia	40	30	
9.4		Acacia cyclops	-	-	
9.4	*	Arctotheca calendula	-	-	
9.4		Acacia cochlearis	opp		
9.4		Acanthocarpus preissii	opp		
9.4		Anthocercis littorea	opp		
9.4	*	Cakile maritima	opp		
9.4		Cassytha racemosa forma racemosa	opp		
9.4		Exocarpos sparteus	opp		
9.4		Hibbertia cuneiformis	opp		
9.4	*	Hypochaeris glabra	opp		
9.4		Rhagodia baccata subsp. baccata	opp		
9.4		Scaevola lanceolata	opp		
9.4		Spinifex hirsutus	opp		

Appendix C

Date	Site	*	Species	Ht (cm)	CA (%)	Status
24/09/02	9.4		Spinifex longifolius	opp		
24/09/02	9.4		Spyridium globosum	opp		
24/09/02	9.5		Crassula colorata var. colorata	10	0.01	
24/09/02	9.5		Monotaxis grandiflora var. grandiflora	1	0.01	
24/09/02	9.5		Carpobrotus virescens	5	0.1	
24/09/02	9.5		Daucus glochidiatus	5	0.1	
24/09/02	9.5		*Eryngium pinnatifidum* subsp. *pinnatifidum ms*	40	0.1	
24/09/02	9.5		Hardenbergia comptoniana	cr	0.1	
24/09/02	9.5		Opercularia vaginata	10	0.1	
24/09/02	9.5		Rhagodia baccata subsp. baccata	20	0.1	
24/09/02	9.5	*	Romulea rosea	10	0.1	
24/09/02	9.5		Exocarpos sparteus	80	0.3	
24/09/02	9.5	?*	Lagurus ovatus	20	0.5	
24/09/02	9.5		Senecio lautus subsp. maritimus	30	0.5	
24/09/02	9.5		Cassytha racemosa forma racemosa	cr	1	
24/09/02	9.5		Gompholobium tomentosum	50	1	
24/09/02	9.5		Poa porphyroclados	60	1	
24/09/02	9.5		Scaevola lanceolata	30	1	
24/09/02	9.5		Diplolaena angustifolia	50	1.5	
24/09/02	9.5		Conostylis aculeata subsp. aculeata	40	2	
24/09/02	9.5		Leucopogon parviflorus	120	2	
24/09/02	9.5		Spyridium globosum	120	2	
24/09/02	9.5		Agonis flexuosa var. flexuosa	500	5	
24/09/02	9.5		Acacia cochlearis	100	8	
24/09/02	9.5		Lepidosperma gracile	40	10	
24/09/02	9.5		Phyllanthus calycinus	40	10	
24/09/02	9.5	*	Trachyandra divaricata	50	30	
24/09/02	9.5		Acanthocarpus preissii	40	50	
24/09/02	9.5		Acacia saligna	opp		
24/09/02	9.5		Alyxia buxifolia	opp		
24/09/02	9.5		Anthocercis littorea	opp		
24/09/02	9.5		Austrostipa compressa	opp		
24/09/02	9.5	*	Avena barbata	opp		
24/09/02	9.5		Caladenia latifolia	opp		
24/09/02	9.5		Clematis linearifolia	opp		
24/09/02	9.5		Dianella revoluta var. divaricata	opp		
24/09/02	9.5		Eremophila glabra subsp. albicans	opp		
24/09/02	9.5		Hibbertia cuneiformis	opp		
24/09/02	9.5		Jacksonia furcellata	opp		
24/09/02	9.5		Lepidosperma gladiatum	opp		
24/09/02	9.5		Olearia axillaris	opp		
24/09/02	9.5	*	Orobanche minor	opp		
24/09/02	9.5		Ozothamnus cordatus	opp		
24/09/02	9.5		Parietaria debilis	opp		
24/09/02	9.5		Trachymene pilosa	opp		
24/09/02	9.5	*	Vulpia myuros var. myuros	opp		
24/09/02	9.6	*	Avena barbata	30	0.1	
24/09/02	9.6		Caladenia latifolia	20	0.1	
24/09/02	9.6		Carex preissii	10	0.1	
24/09/02	9.6		Crassula colorata var. colorata	5	0.1	
24/09/02	9.6	*	Erodium cicutarium	5	0.1	
24/09/02	9.6	*	Hypochaeris glabra	5	0.1	
24/09/02	9.6		Pelargonium littorale subsp. littorale	5	0.1	
24/09/02	9.6	*	Sagina apetala	5	0.1	
24/09/02	9.6		Spyridium globosum	40	0.1	
24/09/02	9.6		Trachymene pilosa	5	0.1	
24/09/02	9.6	*	Zantedeschia aethiopica	5	0.1	
24/09/02	9.6		Senecio lautus subsp. maritimus	10	0.3	
24/09/02	9.6		Acacia cochlearis	60	0.5	
24/09/02	9.6		Exocarpos sparteus	150	0.5	

Appendix C

Date	Site	*	Species	Ht (cm)	CA (%)	Status
24/09/02	9.6		Isolepis nodosa	80	0.5	
24/09/02	9.6		Olearia axillaris	40	0.5	
24/09/02	9.6		Phyllanthus calycinus	30	0.5	
24/09/02	9.6		Picris squarrosa	10	0.5	
24/09/02	9.6		Poa porphyroclados	30	0.5	
24/09/02	9.6		Poa porphyroclados	100	0.5	
24/09/02	9.6	*	Trachyandra divaricata	40	1	
24/09/02	9.6		Bromus arenarius	30	2	
24/09/02	9.6		Lepidosperma squamatum	80	2	
24/09/02	9.6		Thysanotus patersonii	cr	2	
24/09/02	9.6		Agonis flexuosa var. flexuosa	200	3	
24/09/02	9.6		Daucus glochidiatus	5	5	
24/09/02	9.6		Rhagodia baccata subsp. baccata	60	5	
24/09/02	9.6		Parietaria debilis	10	10	
24/09/02	9.6		Clematis linearifolia	cr	15	
24/09/02	9.6		Acacia saligna	200	20	
24/09/02	9.6		Xanthorrhoea preissii	250	20	
24/09/02	9.6		Anthocercis littorea	200	25	
24/09/02	9.6		Banksia littoralis	800	25	
24/09/02	9.6		Lepidosperma gracile	0.4	30	
24/09/02	9.6		Acanthocarpus preissii	opp		
24/09/02	9.6	*	Avena barbata	opp		
24/09/02	9.6		Carpobrotus virescens	opp		
24/09/02	9.6		Cassytha racemosa forma racemosa	opp		
24/09/02	9.6		Conostylis aculeata subsp. aculeata	opp		
24/09/02	9.6		Dischisma capitatum	opp		
24/09/02	9.6		Eremophila glabra subsp. albicans	opp		
24/09/02	9.6		Jacksonia furcellata	opp		
24/09/02	9.6		Lepidosperma gladiatum	opp		
24/09/02	9.6		Millotia myosotidifolia	opp		
24/09/02	9.6		Phyllangium paradoxum	opp		
24/09/02	9.6	*	Romulea rosea	opp		
24/09/02	9.7 Releve		Banksia littoralis	800	0.01	
24/09/02	9.7 Releve	*	Cortaderia selloana	200	0.01	
24/09/02	9.7 Releve	*	Ehrharta longiflora	50	0.01	
24/09/02	9.7 Releve		Persicaria decipiens	20	0.01	
24/09/02	9.7 Releve		Rhadinothamnus anceps	200	0.01	
24/09/02	9.7 Releve		Rhagodia baccata subsp. baccata	50	0.01	
24/09/02	9.7 Releve		Rumex sp.	10	0.01	
24/09/02	9.7 Releve	*	Sonchus oleraceus	10	0.01	
24/09/02	9.7 Releve	*	Zantedeschia aethiopica	40	0.01	
24/09/02	9.7 Releve	*	Isolepis prolifera	40	0.1	
24/09/02	9.7 Releve		Acacia saligna	250	1	
24/09/02	9.7 Releve		Agonis flexuosa var. flexuosa	800	1	
24/09/02	9.7 Releve		Bolboschoenus medianis	180	2	
24/09/02	9.7 Releve		Juncus pallidus	150	2	
24/09/02	9.7 Releve		Carex appressa	150	10	
24/09/02	9.7 Releve	*	Typha orientalis	160	10	
24/09/02	9.7 Releve		Pteridium esculentum	180	30	
24/09/02	9.7 Releve		Lepidosperma gladiatum	180	50	
24/09/02	9.7 Releve		Calycopeplus oligandrus	opp		
24/09/02	9.7 Releve		Melaleuca raphiophylla	opp		
24/09/02	9.7 Releve		Myoporum oppositifolium	opp		
24/09/02	9.7 Releve	*	Pennisetum clandestinum	opp		
26/09/02	10.1		Acacia stenoptera	10	0.01	
26/09/02	10.1	*	Avena barbata	30	0.01	
26/09/02	10.1		Caladenia hirta subsp. hirta	20	0.01	
26/09/02	10.1		Daucus glochidiatus	5	0.01	
26/09/02	10.1		Drosera pallida	20	0.01	
26/09/02	10.1		Drosera stolonifera subsp. stolonifera	10	0.01	

Vegetation Survey Sheet

Project:	Initials:	Site No: 10.1
Date: 26/9/02	Film No: 2	Photo No: 22 + 23

Location: Site 10 Hill	GPS: 372 767 6305 265

Topography: Br : R : [✓ US] : MS : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : N/A
Outcropping: Num : [✓ Mod] : Occ	Litter Cover (%): Litter Type: ..... Logs ..... Twigs ..... Leaves
Soil Ratio: ..... Clay ..... Silt ..... [✓ Sand]	Bare Ground (%):
Soil Colour:	Age since last fire: < 2 (?18 mths)
Pebble Type: Angular : [✓ Subangular] : Rounded	Pebble Size: <1mm : [✓ <1cm] : <10cm : <20c

* canopy is epicormic after fire

Vegetation Description: Tall Woodland of Euc gomph, marra Co
over Agonis + Bank atten + occasional Xylo + B. grandis
over Low Shrubland dom. by Hibb. hyp.
* lots of seedling regrowth
Condition = ~~2~~ 3 coz of Guildford grass

10

Coll. No.	Species	Ht (cm)	%A	%D
	Euc gomph	18m	50	
	Cor calophylla	20m	10	
	Banksia attenuata	6m	10	3
	Xylomelum occid.	8m	1	
	Macrozamia reid.? no trunk	150	4	
	Hibbertia hypericoides	40	10	
	Kennedia prostrata	5	1	
	Hardenbergia	CR	0.5	
	Caladenia flava	20	0.1	
	Caladen lat	70	0.1	
	Pterostylis ~~[illegible]~~ vittata	10	0.01	0.01
	Conostylis macrantha	10	0.1	
	*Romulea rosea	10	2	
98	Austrostipa ~~hairy nodes~~ tenuifolia	50	1	
101	Austrostipa ~~annual~~ compressa	40	1	
	Burchardia umbellata	30	1	
102	~~Grass~~ Microlaena stipoides	40	0.1	

Vegetation Survey Sheet.xls

* ~~PE~~ Agonis in low areas
Cor cal in higher

9725 5900
Peter Hanley

Thys
* diversity
* [illegible] of
brot → * ROS near high density housing - panorama aesthetics - walk ways.
ros → sens signif
Guildford grass
III

'0.1 opps.

Condition Varies to 6

Erharta perrenial calycina
Ursinia anthemoidis
Athrixia pulverulenta
Caladenia georgei
Oxalis pes caprae
* weeds on road verges + track edges
don't penetrate far into bushland currently
Lomandra purpurea
Acacia pulchella
106 Lobelia tenuoir
Crassula colorata
107*Whalenbergia ~~capensis~~ gracilenta
27 Millotia myosotidifolia
108 Lomandra ~~?suaveolens~~ brittanii
*Avena barbata
Anagallis arvensis
~~[illegible]~~ Opercularia hispida
Conostephium pendulum
Orthosanthus braxos
Sonchus oler
*Lupinus angustifolium
*Lupinus cossotinii
*Clover subterraneum
EB75 *~~Clover~~ Melilotus siculus
Dasypogon bromelifolius

Coll. No.	Species	Ht (cm)	%A	%D
	Lecinaga hugo	10	0.1	
	Conostylis aculeata	20	0.5	
	[illegible]	10	0.1	
100	~~[illegible]~~	10	0.1	
	Diuris corymbosa			
	Lomandra [illegible]	40	0.2	
	Lepidosperma squamata	30	0.5	
	Xanthorrhea gracilis	40	2	
	Trachymene pilosa	10	0.2	
	Lomandra micrantha	20	0.2	
	Dianella revoluta	50	0.3	
	Tetraria octandra	30	0.1	
	Sowerbaea ~~multi~~ laxi	20	0.1	
	Drosera pallida	20	0.01	
	Isotropis juncifolius	30	0.01	
	~~Jacksonia sternbergiana seedling~~	~~10~~		
	Thysanotus patersonii	10	0.01	
	Avena barbata	30	0.01	
103 [illegible]	Isolepis ~~[illegible] Sand~~ marginatus	5	0.01	
	Trifolium ~~spp~~ ? campestri	5	0.01	
	Daucus gloch	5	0.01	
	Jacksonia ?sparsa (P4)	20	0.02	
	Leucopogon propinquus	30	0.4	
	Drosera stolonifera	5	0.01	
	Desmocladus fasciculatus	10	0.1	
	Acacia stenoptera seedling	10	0.01	
104	Caladenia hirta subsp. hirta ~~[illegible]~~	20	0.01	
	Euc marginata			
	Agonis flexuosa			
	Bank grandis			
	Anigozanthus mang			
	[illegible] weed Freesia alba x leichtlinii			
	*Cumenia carnolata			
	Phlebarium spicat			
43	Poa ~~[illegible]~~ porphyroclados			
	Caspedia ~~Poa~~ variabilis			

10.1 [illegible]

Logania serpillifolia
Astroloma ciliatum
Petrophile linearis
Dampiera linearis
95 Orchid spider Caladenia ?speciosa ← sent to Andrew Brown
99 Bunny orchid = Leptoceras menziesii ✓✓
Pyrochis nigricans (orchid ♡ H)
*Hypochaeris glabra
*Briza maxima
105 ~~Daisy small heads~~ Rhodanthe corymbosa
Waitzia suaveolens
Luzula meridionalis
Caesia micrantha
Chamaescilla corymbosa
Xanthorrea brunonis
Phyllanthus calycinus
Hibbertia racemosa
Petrorhaga velutinea
Billardiera drummond
Hovea chorizemifolia
Lomandra ~~[illegible]~~ hermaphr
*Arctotheca calendula
Clematis ~~[illegible]~~ linneari
Opercularia vaginata
*Euphorbia terracina — especially along E-W Rd
EB60 Patersonia umbrosa subsp. umbrosa
Acacia huegelii
106 ~~Senecio~~ Picris squarrosa
96 Prasophyllum elatum
97 ~~Donkey paler (crossed)~~ Diuris corymbosa
Hybanthus calycinus
Synaphea ? spinosa
Bossiae eriocarpa
*Briza minor
Dasirsa divaricata

Vegetation Survey Sheet

Project:	Initials: EB (BR @ CALM)	Site No: 10.2
Date: 27/9/02	Film No: 2	Photo No: 24, 25

Location: South [illegible]	GPS: 372420
portion of Site 10	6305346
similar [illegible] as Site 8.	

Topography: Br : R : US : MS : [✓ LS] : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : N/A
Outcropping: — Num : Mod : Occ	Litter Cover (%): Litter Type: 0 Logs 1 Twigs 5 Leaves
Soil Ratio: ..... Clay ..... Silt 1.00 Sand Soil Colour:	Bare Ground (%): 0 Age since last fire: >75 yrs
Pebble Type: — Angular : Subangular : Rounded	Pebble Size: NA <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Site Condition 3 [illegible] 3-5, [illegible]
Euc gompho woodland over
Agonis flexuosa low woodland over
[illegible] weeds and [illegible] grassland [illegible]

Coll. No.	Species	Ht (cm)	%A	%D
	Euc gomphocephala	16m	45	
	Agonis flexuosa	8m	40	
	Hardenbergia comptoniana	T	1	
	Clematis linearifolia	T	1	
	Phyllanthus calycinus	40	5	
	Lomandra [illegible]	35	0.5	
	Dichopogon [illegible]	15	4	
	Daviesia divaricata	110	1	
	Anagallis arvensis	15	30	
	Daucus glochidiatus	10	5	
	Sowerbaea laxiflora	25	0.5	
	Sonchus oleraceus	20	5	
	Drosera erythrorhiza	1	0.1	
	Briza maxima	45	40	
	Drosera pallida	T	0.1	
97	Diuris corymbosa	40	0.1	
	Acacia pulchella	30	0.5	

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
109	Lasiopetalum membranaceum ✓✓	30	0·1	
	Drosera stolonifera	15	0·1	
	Conostylis aculeata	20	1	
	Hibbertia hypericoides	45	5	
	Lepidosperma squamatum	50	1	
	Opercularia hispidula	35	0·5	
	Synaphea spinulosa	40	0·1	
	Bossiaea eriocarpa	35	0·1	
2	Oxalis corniculata	25	0·5	
	Caladenia latifolia	40	0·1	
	Dianella revoluta	45	0·1	
	Geranium molle	35	0·1	
	Rhagodia baccata	40	2	
	Acanthocarpus preissii	35	0·1	
102	~~grass~~ Microlaena stipoides	45	0·1	
	Corynotheca micrantha	35	0·5	
	Macrozamia riedlei	100	0·1	
	Lagenophora huegelii	30	0·1	
	Orthrosanthus laxus	45	0·5	
	Patersonia umbrosa umbrosa	45	0·1	
93	~~Grass~~ Carex appressa	35	0·1	
	*Romulea rosea	40	10	
105	~~Senecio~~ Rhodanthe corymbosa	70	0·1	
	Trifolium ? campestre	35	5	
opp.	Acacia saligna			
〃	Eryngium pinnatifidum			
	Caladenia flava			
	Hypochaeris glabra			
	Trachymene pilosa			
	Briza minor			
	Ursinia anthemoides			
	Acacia cochlearis			
	Euc marginata			
98	Austrostipa tenuifolia			
96	Prasophyllum elatum			

Burchardia umbellata
108 Lomandra brittanii
Hovea trisperma
Schoenus grandiflorus
Caesia parviflora
Kennedia coccinea
Hibbertia cuneiformis
Euphorbia terracina
Arctotheca calendula
Ehrharta calycina
Petrorhagia velutina
Oxalis pes caprae
Pterostylis vittata
Thysanotus patersonii
Haemodorum spicatum
Hybanthus calycinus

Ehrharta longiflora
35 ~~Geranium white fl~~ Erodium cicutario
95 Spider orchid Caladenia? specio
Spyridium globulosum
Hibbertia racemosa
Isotropis cuneifolia
Lagenifera huegelii
Diplolaena dampieri
Euphorbia peplus
Isolepis nodosus
Eremophila glabra
Lagurus ovatus
Leucopogon propinquus
Cotula turbinata
110 Dichondra repens
Thysanotus sparteus
Caladenia georgei

Andrew Brown to check

Vegetation Survey Sheet

Project:
Initials:
Site No: 10.3
Date: 26/9/02
Film No: 2
Photo No: 26 + 23

Location: Nth end of site 10 in wetland next to drain
GPS: 373 248
6306 023

Topography:
Br : R : US : MS : LS : [✓ DL] : MiC : MaC

Aspect:
N : NW : W : SW : S : SE : E : NE : [✓ N/A]

Outcropping:
Num : Mod : Occ

Litter Cover (%):
Litter Type: ..... Logs 2.... Twigs .8.. Leaves

Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand
Soil Colour:

Bare Ground (%): 2%

Age since last fire:

Pebble Type:
Angular : Subangular : Rounded

Pebble Size:
<1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Low Woodland of Mel raph over Mel teretifolia over sedges + weeds. & occasional E. rudis
Condition 5-6 (degraded to v. good)

Coll. No.	Species	Ht (cm)	%A	%D
	Melaleuca rhaphiophylla	8m	≈ 40	
	Mel teretifolia	4.5m	≈ 20	
114	~~Sedge heads~~ *Carex divisa	70	≈ 10	
117	~~Curvus~~ Poaceae sp.	70	35	
	Gahnia trifida	70	0.5	
	*Couch *Cynodon dactylon	10	50	
	*Guildford grass Romulea rosea	10	1	
	Cotula turbinata	10	0.1	
	Acacia saligna	4m	0.5	
	*Sonchus ol.	5	0.01	
	Cassytha racemosa	CV	1	
16	~~Ranunculus~~ *Apium graveolens	5	0.01	
	*Trifolium sp.	5	0.1	
	Cotula coronopifolia			
	Euc rudis			
	Curvus marginatus			
#	Juncus bufonius			

oppps.

Coll. No.	Species	Ht (cm)	%A	%D
113	Trifolium red *Melilotus siculus			
	Melaleuca viminea in NE corner		(sim.	to TEC ?
	(more common in			than ?
	Baumea juncea			
	*Bushforever			
	Bushmead Site			
	* 3b TEC + FTBC			
	even tho its got the			
	dominant spp. structure			
	becoz its so degraded			
	can no longer consider			
	a TEC			
TEC	Info not available			
	until after [illegible]			

Vegetation Survey Sheet

Project:	Initials:	Site No: 10.4 relevé of (10.3 in better) condition
Date: 26/9/02	Film No: 2	Photo No: 28 (only 1)

Location: SE corner	GPS: 373 144 6305 575

Topography: Br : R : US : MS : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : N/A
Outcropping: .... Num : Mod : Occ	Litter Cover (%): Litter Type: ..... Logs ..... Twigs ..... Leaves
Soil Ratio: ..... Clay ..... Silt ..... Sand	Bare Ground (%):
Soil Colour:	Age since last fire:
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description:

see 10.3

Condition = 4

Coll. No.	Species	Ht (cm)	%A	%D
	Euc rudis		0.5	
	Mel raphio	10m	40	
	Oxylobium lineare	2m	3	
	Juncus pallidus	60	1	
	Isolepis nodosus	50	2	
	Hakea varia	200	1	
	Opercularia hispidula	10	0.5	
	[illegible] calycina	50	0.5	
	Acacia saligna		0.5	
115	Boronia spathulata	60	0.1	
116	Dampiera trigona	40	0.1	
	Caladenia latifolia	20	0.01	
116	~~Restio~~ Meeboldina decipiens ssp decipiens	50	0.1	
	*Briza maxima	20	0.1	
	*Cynodon dactylon	10	30	
	*Hypochaeris glab	5	0.01	
	Trifolium campestre	10	0.01	

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
	Pimelea sp.	60	0.01	
117	Eutaxia virgata	50	0.1	
	*Sonchus olera	10	0.1	
	Guildford grass *Romulea rosea	20	0.5	
118	Luainia imberbis	40	0.1	
119	Lepidosperma longitudinale	60	10	
	Cassytha racemosa	cf	0.01	
	Sonchus asper	20	0.01	
	*~~Dock~~ Picris squarrosa	10	0.01	

Vegetation Survey Sheet

remove pegs – days to sto

Project:	**Initials:**	**Site No:** 41
Date: Thurs 26/9/0	**Film No:** 3	**Photo No:** 1 + 2

Location:	**GPS:** 3878 582
NE corner of Site 41	6307 954
(back of Abattoir)	

Topography: Br : R : US : MS : [✓ LS] : DL : MiC : MaC	**Aspect:** N : NW : W : SW : S : SE : E : NE : [✓ N/A]
Outcropping: / Num : Mod : Occ	**Litter Cover (%):** Litter Type: ..... Logs 5 Twigs 15 Leaves
Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand **Soil Colour:**	**Bare Ground (%):** 2% **Age since last fire:** /
Pebble Type: / Angular : Subangular : Rounded	**Pebble Size:** <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Forest of Cor cal + Agon flex
over weeds

Condition = 6 (sheep, weeds – Parkland)

Coll. No.	Species	Ht (cm)	%A	%D
	Corymbia calo	20m	5-20	
	Agonis flex	10m	20 – 60	
120	*Dock *Rumex ?crispis	60cm	20	
	*Hordeum vulgare	40	50	
	*~~?m~~ Oxalis pes caprae	10	0.1	
	*Avena barbata	60	0.1	
	Erharta longifl	40	0.1	
13	Divided petals *stellaria media	10	0.1	
	Fumaria capreolata	20	0.1	
	Phytolacca octandra	~~40~~ (sprayed & mostly dead)		
	Watsonia			
	Pteridium esculentum			
	Solanum laciniatum			
	Guildford grass			
	Lupinus angust			
	Solanum nitens			
	Acacia pulchella			

} range

spps

4

Vegetation Survey Sheet.xls

Coll. No.	Species	Ht (cm)	%A	%D
	*Ehrharta calycina			
	*Lupinus ~~yellow~~ luteus			
	*Cynodon dactylon			
	*Arctotheca calendula			
	Melaleuca preissiana		0.01	

Vegetation Survey Sheet

around water & seep

Project:	Initials:	Site No: 42 relevé
Date: 26/9/02	Film No: 3	Photo No: 3, 4 + 5

Location: just Sth of [illegible] sheds	GPS: 378 3335
	6307 483
Surface W - lagoon track	

Topography: Br : R : US : MS : LS : [✓ DL] : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : [✓ N/A]
Outcropping: …… Num : Mod : Occ	Litter Cover (%): …… Litter Type: 5 Logs 4 Twigs 10 Leaves
Soil Ratio: ….. [✓ Clay] ….. Silt ….. Sand Soil Colour:	Bare Ground (%): —
	Age since last fire: >5
Pebble Type: …… Angular : Subangular : Rounded	Pebble Size: …… <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Forest

Condition: 6 — but worthy of conservation despite weeds

Coll. No.	Species	Ht (cm)	%A	%D
	Euc rudis	30m	60	
	[illegible]	10m	2	
76	~~[illegible]~~ Callitriche stagnalis water weed	5	5	
120	Dock *Rumex ?crispus	10	1	
	*Hordeum vulgare	50	50	
	*Ehrharta longiflora	40	1	
	*Oxalis pes-caprae	20	1	
	*Cerastium glom	10	0.1	
	*Oxalis glabra	10	0.1	
121	Poa annua	10	0.1	
	Fumaria capreolata	60	2	
	*Asparagus asparagoides			

opp

Vegetation Survey Sheet.xls

→ rudis Saligna lagoon

— rudis Fumaria

Vegetation Survey Sheet

[illegible] damage to [illegible]

Project:	Initials:	Site No: 4·3
Date: 26/9/02	Film No:	Photo No: 6+7

Location:	GPS: 378 1[illegible]95
SE corner, near creek.	6309 104

Topography: Br : R : US : MS : [✓ LS] : DL : MiC : MaC

Aspect: N : NW : W : SW : S : SE : E : NE : N/A

Outcropping: Num : Mod : Occ

Litter Cover (%):

Litter Type: 1 Logs 5 Twigs 5 Leaves

Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand

Soil Colour:

Bare Ground (%): —

Age since last fire: > 5

Pebble Type: Angular : Subangular : Rounded

Pebble Size: <1mm : <1cm : ≤10cm : <20cm : >20cm

Vegetation Description: Parkland - Closed Woodland of Agonis flex over weeds

* Comfrey + bulla 4 Preston River [illegible]

Condition = 6

3 pps

Coll. No.	Species	Ht (cm)	%A	%D
	Agonis flex	12m	90	
*	~~weed~~s *Bromus diandrus	10	90	
	Banksia littoralis			
	Banksia ilicifolia			
	Persoonia longifolia			
	Euc margin			
	Cor calophylla			
	Pimelea floribunda			
	Ehrharta longiflora	50	90%	
	Geranium molle			
120 ~~200~~	~~Dock~~ *Rumex ?crispus			
	Hordeum ~~[illegible]~~ vulgare			
	Kunzea ericifolium			
	Euc rudis			

Vegetation Survey Sheet.xls

Vegetation Survey Sheet

remove pegs - danger to horses

Project:	Initials:	Site No: 4.4
Date: 26/9/02	Film No: 3	Photo No: 8+9

Location: Sth end of road reserve	GPS: 377 686
block.	6307 306

Topography: Br : R : US : MS : [✓ LS] : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : N/A
Outcropping: Num : [✓ Mod] : Occ	Litter Cover (%): Litter Type: 5 Logs 3 Twigs 2 Leaves
Soil Ratio: ..... Clay ..... Silt ..... Sand Soil Colour: sandy clay	Bare Ground (%): 3% horse sand baths Age since last fire:
Pebble Type: Angular : Subangular : [✓ Rounded]	Pebble Size: <1mm : <1cm : [✓ ≤10cm] : <20cm : >20cm

Vegetation Description:	Woodland of Mel + Agonis over weeds
*well grazed by horses - Condition=6	

map of this mosaic

opps

Coll. No.	Species	Ht (cm)	%A	%D
	Melaleuca preissiana	9m	30	2
	Agonis flex	8m	40	2
122	*Lotus ~~(yellow)~~ suaveolens	5	0.5	
	*Ehrharta longiflora	3	60	
	Burnaria [illegible]	20	1	
	*Hypochaeris glabra	5	0.01	
	Arctotheca calendula	5	0.01	
*Trifolium	Subterraneum clover	5	0.01	
	Kunzea ericifolia			
	Jacksonia furcellata			
	Daviesia divaricata			
	Ursinia anthemoides			
	Cotula turbinata			
	Acacia saligna			
	Sowerbaea multiflora			
	Hardenbergia comp			
	Melaleuca thymoides			

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
	Kennedia prostrata			
	Asparagus asparagoides			
	Briza maxima			
	Dasypogon bromeliifolius			
	Jacksonia sparsa (PL)			
	Nuytsia flor			
	Macrozamia riedlei			
	Banksia ilicifolia			
	Banksia attenuata			
	Phebalium spicatum			
	Conostylis aculeata			
	Acacia pulchella			
	Burchardia umbellata			
	Viminaria juncea			
	Banksia grandis			

Vegetation Survey Sheet

remove pegs - school next door

Project:	Initials:	Site No: 11
Date: Fri 27/9/02	Film No: 3	Photo No: 10 + 11

Location: Block to W of school	GPS: 3832682 6317975

Topography: Br : R : US : MS : [✓ LS] : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : [✓ N/A]
Outcropping: .... Num : Mod/ : Occ	Litter Cover (%): .... Litter Type: 5 Logs 10 Twigs 30 Leaves
Soil Ratio: ..... Clay ..... Silt ..... [✓ Sand]	Bare Ground (%): 1%
Soil Colour:	Age since last fire: >5
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : ≤10cm : <20cm : >20cm

Vegetation Description: Dense Shrubland of Kunzea glab (ER123) in emergent Corymbia calo + Mel preissiana [illegible] perennial veldt on edge

1

Coll. No.	Species	Ht (cm)	%A	
ER123	Kunzea glabrescens	4m	80	
	Melaleuca preissiana	10m	7	
	Hypocalymma angust	50	0.1	
	Dasypogon brom	40	30	
124	Acacia semitrullata (P3)	20	1	
	Corymbia seedlings	5	0.5	
	Hypochaeris glab	5	0.3	
	Desmocladus fasic	4m	0.1	
	Xanth gracilis	60	0.1	
	[illegible]	20	0.01	
	~~*South African Orchid~~ *Disa bracteata	5	0.01	
	Caladenia flava	5	0.01	
	*Ehrharta longifol	30	0.01	
	Stylidium pilifera	5	0.01	
	Drosera erthyrohiza	5	0.01	
9775	Jacksonia sparsa			
	Jacksonia furcellata			

Vegetation Survey Sheet.xls

Coll. No.	Species	Ht (cm)	%A	%D
[illegible]	[illegible] sublateralis	[illegible]	0.01	
	[illegible]	5	0.01	
	* Trifolium [illegible]	5	[illegible]	
	[illegible] squamatum		[illegible]	
119	Lepidosperma longitudinale	50	0.[illegible]	
	Banksia [illegible]			
	Banksia littoralis			
	Conostylis aculeata			
126	[illegible] pauciflora			
	Phlebocarya ciliata			
	Burchardia umbellata			
	Ursinia anthemoides			
127	Diuris corymbosa			
128	Drosera [illegible] nitidula			
4/12.50	[illegible]um paradoxum			
	[illegible]			
	[illegible]			
	[illegible]			
	*Guildford grass Romulea rosea			
	Nuytsia floribunda			

opps

[illegible]

Vegetation Survey Sheet

Project:	Initials:	Site No: 1.2
Date: Fri 8[illegible]	Film No: 3	Photo No: 12+13

Location: Australind [illegible]	GPS: 382 947 6317 617

Topography: Br : R : US : [✓ MS] : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : [✓ N/A]
Outcropping: .... Num : Mod : Occ	Litter Cover (%): .... Litter Type: ..... Logs ..... Twigs ..... Leaves
Soil Ratio: ..... Clay ..... Silt ..... [✓ Sand] Soil Colour:	Bare Ground (%):
	Age since last fire:
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Open Woodland of Cor cal + [illegible]
[illegible] + Banksia [illegible]
[illegible] Tall Shrubland of CB123 Kunzea
[illegible] [illegible] [illegible] mixed shrubland/heathland
Condition = 2

Coll. No.	Species	Ht (cm)	%A	%D
	Corymbia [illegible]	12m	8	
	Banksia attenuata	8m	10	
	Banksia [illegible]	6m	3	
123	Kunzea ~~[illegible]~~ glabrescens	6m	50	
	Xanthorrhoea [illegible]	[illegible]	3	
	Hibbertia hypericoides	[illegible]	1	
	[illegible]	20	5	
131	X[illegible] ~~[illegible]~~ brunonis subsp. brunonis	70	1	
130	Drosera [illegible] stolonifera subsp. stolonifera	10	2	— ward.
	Xylomelum occid.	6m	[illegible]	
	[illegible]	10	[illegible]	
	[illegible] nigricans	[illegible]	0.[illegible]	
	Lepidosperma ~~[illegible]~~ squamatum	50	0.5	
	[illegible]	10	[illegible]	
	Stylidium [illegible]	[illegible]	[illegible]	
	Jacksonia [illegible]	170	[illegible]	
	[illegible]	5	0.[illegible]	

Vegetation Survey Sheet.xls

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
135	Billardiera — laxiflora	CK	[illegible]	
	Conostephium [illegible]	[illegible]	0.1	
	Leucopogon [illegible]	[illegible]	[illegible]	
	[illegible] [illegible]	5	0.3	
	[illegible] villosa	[illegible]	[illegible]	
	[illegible] [illegible]	[illegible]	0.1	
	Melaleuca [illegible]	170	0.5	
	[illegible] [illegible]	10	0.1	
	Phlebocarya ciliata	20	0.1	
	Patersonia [illegible]	30	0.1	
	[illegible] [illegible]	10	0.1	
	Bossiaea [illegible]	30	0.2	
	Daviesia [illegible]	30	0.2	
	Hemiandra [illegible]	20	0.2	
	[illegible] spicata	10	0.01	
	Stylidium [illegible]	10	0.01	
	Lomandra sp.	10	0.01	
	~~[illegible]~~ *Poaceae sp.	5	0.1	
	Chamaescilla corymbosa	20	0.01	
	[illegible] [illegible]	5	0.01	
	Xanthosia [illegible]	5	[illegible]	
	Persoonia [illegible]	[illegible]		
	Euc marg	1A		
	Hovea [illegible]			
	Drosera [illegible]			
	Acacia [illegible]			
	[illegible] [illegible]			
	Daviesia ~~[illegible]~~ physodes			
56	Caladenia ~~[illegible]~~ ? speciosa (Sent to Andrew Brown)			
	Macrozamia riedlei			
119	Lepidosperma longitudinale			
	[illegible] [illegible]			
	Conostephium pendulum			
	Hardenbergia [illegible]			
132	Acacia flagelliformis (P4)			
	Petrophile linearis			

133 Tetra[illegible] hirsuta

[illegible] [illegible]

*Freesia
*Fumaria capreolata
134 Pink weed *Silene sp. — new weed. (Mike Hislop)
Hypocalymma angustifolium
Nuytsia flori
Trachymene pilosa
*

V ati un ne

Project:	Initials:	Site No: 1·3
Date: Fri 27 [illegible] 02	Film No: 3	Photo No: [illegible] 17

Location: W side of WWTP ponds in	GPS: 382 [illegible]27
healthy bush	6310 [illegible]33

Topography: Br : R : US : [✓ MS] : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : [✓ N/A]
Outcropping: Num : [✓ Mod] : Occ	Litter Cover (%): Litter Type: – Logs 5 Twigs 50 Leaves
Soil Ratio: ..... Clay ..... Silt ..... [✓ Sand] Soil Colour:	Bare Ground (%): 0% Age since last fire: >5
Pebble Type: Angular : Subangular : [✓ Rounded]	Pebble Size: <1mm : [✓ <1cm] : <10cm : <20cm : >20cm

Vegetation Description:	Closed Woodland of Euc marg, Cor calo,
	Bank atten + Bank ilic over
	Closed shrubland of Allos + Xanth

Coll. No.	Species	Ht (cm)	%A	%D
	Eucalyptus marg	17 m	10	
	Banksia attenuata	10 m	5	
	Banksia ilicifolia	12 m	25	
	Allocas humilis	3 m	10	
131	Xanth brunonis ssp. brunonis	90cm	15	
	Stirlingia latifolia	80	0.5	
	Scaevola calliptera	40	4	
	Desmocladus [illegible]	20	0.1	
	Hibbertia hypericoides	30	1	
	[illegible] floribund	40	0.5	
	[illegible] racem	20	0.5	
125	[illegible] laxiflora	[illegible]	0.2	
119	Lepidosperma longitudinale	40	3	
	Tetraria octandra	50	5	
130	Drosera stolonifera ssp. stolonifera	20	0.1	
	*[illegible]	5	[illegible]	
	Bossiaea eriocarpa	20	0.5	

Condition: 5

[illegible] — a [illegible] water [illegible] wetlands?

Vegetation Survey Sheet.xls

Coll. No.	Species	Ht (cm)	%A	%D
	Burchardia [illegible]	20	0.1	
	Briza maxima	[illegible]	0.1	
	Xanthosia pusilla	30	0.1	
	[illegible]	10	0.1	
	Lomandra hermaphrodita	30	0.2	
	~~Loxocarya~~ Desmocladus flexuosa	30	0.2	
	Hypolaena exsulca	20	0.1	
	Hardenbergia comptoniana	CR	0.1	
	Drosera pallida ~~[illegible]~~	CR	0.01	
d.larcal	Anigozanthos manglesii	50	0.01	
	Logania serpyllifolia	20	0.1	
	Gompholobium polymorphum	50	0.01	
	Melaleuca thymoides	90	0.1	
136	Daviesia physodes	40	0.1	
	Neurachne alopecuroidea	70	0.5	
[illegible]	~~[illegible]~~			
	Phlebocarya ciliata	430	0.2	
	Dampiera linearis	20	0.1	
127	Diuris corymbosa			
	Conostylis serrulata			
	Lyginia barbata			
	Xylomelum occidentale			
	[illegible]			
	[illegible]			
	Jacksonia sparsa			
	Patersonia umbrosa ssp umbrosa			
	*Avena barbata			
	[illegible] linearis			
	Thysanotus patersonii			
	*[illegible] velutina			
	Leucopogon propinquus			
	Caladenia flava			
	*Crassula colorata			
	Hibbertia racemosa			
EB 139	* Crassula No ? : -colorata subsp colorata -decumbens var. decumbens			
	Daviesia divaricata			

Dasypogon bromeliifolius
Macrozamia riedlei
Persoonia long
* Oxalis pes caprae
Phlebocarya ciliatum
Banksia grandis
Acacia pulchella
129 Microtis media subsp. media
Kennedia prostrata
Adenanthos meisneri
Ehrharta calycina
Arctotheca calend.
138 ~~?cyanea~~ Calectasia narragara
139 Lomandra micrantha subsp. micrantha
Stylidium brunonis
Hakea trisperma
Drosera erythrorhiza
Pyrorchis nigricans
Caesia parviflora
Nuytsia floribunda
Hypocalymma angustifolium
Kunzea [illegible]
~~Patersonia~~
Thysanotus multiflorus
Conostephium pendulum
Gompholobium capitatum

should be
Site 1.2

Drosera menziesii
Elythranthera brunonis
140 Conospermum capitatum subsp. ?capitatum
Trachymene pilosa

Lysinema ciliatum
Lomand purp

Vegetation Survey Sheet

• release coz wet + [illegible] 100m

Project:	Initials:	Site No: 11.1
Date: Fri 22.11.02	Film No: 3	Photo No: 18+19

Location: L [illegible]	GPS: 377 637
	6312 423

Topography: Br : R : US : MS : LS : [✓ DL] : MiC : MaC	Aspect: [✓ N] : NW : W : SW : S : SE : E : NE : N/A
Outcropping: .... Num : [✓ Mod] : Occ	Litter Cover (%): 10 Litter Type: –.... Logs 1.... Twigs 9.... Leaves
Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand Soil Colour: Sandy c̄ silt (looks like mud but must incl)	Bare Ground (%): – bare mud! Age since last fire: > 5
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description:	Sedgeland of Juncus c̄ emergent Cas obesa + Euc rudis
Condition = 4 (Watsonia a prob but not on edge).	

road corridor

[illegible]

Coll. No.	Species	Ht (cm)	%A	%D
	Casuarina obesa	8m	3	
141	Juncus kraussii subsp. australiensis	120	~~95~~ 80	
142	Halosarcia lepidosperma	20	1	
143	Frankenia pauciflora	30	3	
	Samolus repens	10	1	
	Watsonia bulbifera	60	10	
	Oxalis pescaprae	20	0.5	
144	~~Enchylaena~~ Threlkeldia diffusa	30	0.5	
	Euc rudis	8m	0.1	
	Avena barbata	40	0.1	
	Arctotheca calendula	10	0.01	
	Vicia sativa	10	0.01	
147	~~Couch~~ *Paspalum vaginatum	5	1	
145	Halosarcia undulata	10	0.5	
146	Halosarcia halocnemoides subsp. halocnemoides	10	0.5	

11 –

Vegetation Survey Sheet

Project:	Initials:	Site No: 4.5
Date: 27/9/02	Film No: 3	Photo No: 20 + 21

Location: horse paddock (just Nth)	GPS: 377 615
" SW of 'Abalon'	6307 555

Topography: Br : R : US : MS : [✓ LS] : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : E : NE : [✓ N/A]
Outcropping: .... Num : Mod : Occ	Litter Cover (%): .... Litter Type: ..... Logs ..1.. Twigs ..2.. Leaves
Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand	Bare Ground (%): 5
Soil Colour:	Age since last fire: >5
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Woodland of Mel raphio

Condition = 6

grazed

Coll. No.	Species	Ht (cm)	%A	%D
	Melaleuca raphio	6m	70	
	Asparagus asparagoides	Bank CK	5	
122	*Lotus suaveolens	5	20	
	Cotula turbinata	10	1	
	Ehrharta longiflora	60	1	
	Cotula coronopifolia	20	1	
121	Poa annua ✓✓	15	1	
	~~Pasture spp.~~ *Poaceae spp.	10	60	
	Eucalyptus rudis	[illegible] 50cm	0.1	
91	Isolepis setiformis	5	0.1	
77	Ranunculus muricatus			
	Acacia saligna			
	Agonis flexuosa			
	Sparaxis bulbifera			

opps

4

Vegetation Survey Sheet

Project:	Initials:	Site No: 46
Date: 27/9/02	Film No: 3	Photo No: [illegible]

Location: [illegible]	GPS: [illegible] 661
	6304 691
Condition 5	

Topography: Br : R : US : MS : [✓ LS] : [✓ DL] : MiC : MaC	**Aspect:** N : NW : W : SW : S : SE : E : NE : [✓ N/A]
Outcropping: .... Num : Mod : Occ	**Litter Cover (%):** .... Litter Type: ..... Logs 5. Twigs 10... Leaves
Soil Ratio: ..... Clay ..... Silt ..... Sand **Soil Colour:**	**Bare Ground (%):** 0
	Age since last fire:
Pebble Type: .... Angular : Subangular : Rounded	**Pebble Size:** .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Intergrade between [illegible] around [illegible] preissiana / Euc marg [illegible] wetland was large or distinct [illegible] Corymbia [illegible] Banksia [illegible] + Kunzea [illegible]

Coll. No.	Species	Ht (cm)	%A	%D
	Corymbia calo	12m	5	
	[illegible] sia [illegible]	4m	3	
	[illegible]	35m	3	
123	~~Melaleuca~~ Kunzea glabrescens	50	15	
	[illegible]	o/h	–	1
	Xanthorrea brunonis	60		
	Hemiacia caudata	30	1	
	Patersonia umbrosa	50	0.5	
	Phlebocarya ciliata	40	30	
	Dasypogon bromelif	60	10	
149	Opercularia hispidula	[illegible]	0.5	
	Dampiera linearis	40	[illegible]	
	[illegible]	50	[illegible]	
	Acacia aplanata	20	0.1	
	[illegible]	40	0.1	
	[illegible]	30	0.5	
	Mela[illegible]	50	3	

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
119	Lepidosperma longitudinale	40		
[illegible]	[illegible] ~~[illegible]~~ efoliatus	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]	
	[illegible]	10	[illegible]	
	Hypochaeris glabra	5	0	
	Aira [illegible]	[illegible]	[illegible]	
	Ehrharta calycina	[illegible]	[illegible]	
	[illegible]	10	[illegible]	
	*Asparagus asparagoides	[illegible]	0.5	
	Daviesia ~~[illegible]~~ physodes			
	Conostylis [illegible]			
	Melaleuca [illegible]			
	~~*Kikuyu~~ *Pennisetum clandestinum			
	[illegible]			
	*[illegible] longiflora			
	[illegible]			
	[illegible]			
	Acacia [illegible]			
	[illegible]			
	[illegible]			
	[illegible]			
	Caladenia [illegible]			
	Viminaria juncea			
	Eragrostis curvula			
	Gladiolus sp.			
	Jacksonia furcellata			
	[illegible]			
	[illegible]			
	[illegible]			
	[illegible]			
	Macrozamia [illegible]			
	[illegible]			
	[illegible]			
	[illegible]			
	[illegible]			
	[illegible]			

Acacia Glaucoptera
Lomandra purpurea
Jacksonia horrida
Nuytsia floribunda
*Watsonia meriana var. bulbillifera

Vegetation Survey Sheet

Project:	Initials:	Site No: 30
Date: 27/9/02	Film No: 3	Photo No: ~~25~~ 24-25

Location: Sandy patch E of site 3.2	GPS: 383 483 6294 307

Topography: Br : R : [✓ US] : MS : LS : DL : MiC : MaC	Aspect: N : NW : [✓ W] : SW : S : SE : E : NE : N/A
Outcropping: .... Num : Mod : Occ	Litter Cover (%): .... Litter Type: ..... Logs 5. Twigs 10. Leaves
Soil Ratio: ..... Clay ..... Silt ..... [✓ Sand] Soil Colour:	Bare Ground (%): 3% Age since last fire: >5
Pebble Type: .... Angular : Subangular : Rounded	Pebble Size: .... <1mm : <1cm : <10cm : <20cm : >20cm

Vegetation Description: Open Woodland of Banks att + Euc marg + Xylomelum occ over shrubland of Kunz gl, Ad + Hypo over weeds

Condition 4

Coll. No.	Species	Ht (cm)	%A	%D
	Banksia attenuata	5m	9	
123	Kunzea ~~[illegible]~~ glabrescens	2m	3	
	Melaleuca thymoides	200	5	
	Adenanthos meisneri	160	8	
149	Jacksonia ~~hamata~~ sparsa (P4)	100	0.5	
	Hypocalymma robustum	150	5	
	Elythranthera brunonis	10	0.1	
	Caladenia flava	20	0.1	
	Ursinia anthemoides	10	2	
	Hypochaeris glabra	5	0.5	
	[illegible]	5	0.1	
	Conostylis aculeata	30	0.5	
	Gompholobium tomentosum	50	0.3	
	Drosera macrantha	10	0.1	
	Phlebocarya ciliatum	50	0.5	
150	Hibbertia vaginata	60	0.5	
	Lyginia barbata	60	0.3	

3

Vegetation Survey Sheet.xls

Eleanor did for PSA [Cartus - Sandy
Kingia - Laterite

Veg
Cartus - Euc haem

Coll. No.	Species	Ht (cm)	%A	%D
	[illegible]	30	0.1	
	Acacia stenoptera	50	0.1	
	[illegible]	20	0.1	
	[illegible]	30	0.1	
151	Centrolepis mutica	5	0.1	
	[illegible]		0.1	
126	[illegible] pauciflora		0.1	
	Patersonia [illegible]	5	5	
	[illegible]	70	0.1	
	Hybanthus calycinus	20	0.1	
	Dasypogon bromelif	40	0.1	
	[illegible] rosea	10	[illegible]	
	[illegible]	10	0.01	
	Stylidium brunonianum	5	[illegible]	
	[illegible]	5	0.1	
	Drosera glanduligera	5	[illegible]	
	Hibbertia hypericoides	20	0.1	
	*[illegible]			
	[illegible]			
	[illegible]			
115	[illegible] spathulata			
57	Acacia semitrullata ⓅⓈ(P3)			
	Acacia [illegible]			
	Petrophile linearis			
153	Pimelea rosea subsp. rosea			
	[illegible]			
	Stylidium [illegible]			
	Acacia pulchella			
	[illegible]			
	[illegible]			
154	Lomandra hermaphrodita			
155	Darwinia ~~[illegible]~~ physodes			
	[illegible]			
	Tricoryne elatior			
	~~[illegible]~~ [illegible]			

Plumatichilos turfosus (P1)

Arthxa oraifera
Junaline
Johnsoia lupulinea
156 Tetratheca hirsoita
Bossiae eriocarpa
Lomandra purporea
Conostephium pendulum
Pimelea pauciflora
Stylidium brunon
157 Leucopogon conostephioides
Calothamnus sanguineus
158 Leucopogon polymorphus
Hemiandra pungens
Lysinema ciliatum
Amphipogon turbinatus
Anigozanthos manglesii

Vegetation Survey Sheet

Project:	Initials:	Site No: 3.2
Date: 27/6/02	Film No: 3	Photo No: 26 + 27

Location: Top of Hill E of rehab	GPS: 383 689 6294 289

Topography: Br : R : [✓ US] : MS : LS : DL : MiC : MaC	Aspect: N : [✓ NW] : W : SW : S : SE : E : NE : N/A
Outcropping: laterite Num : [✓ Mod] : Occ	Litter Cover (%): Litter Type: ..... Logs 5.. Twigs 40.. Leaves
Soil Ratio: ..... Clay ..... Silt ..... Sand Soil Colour: sandy clay	Bare Ground (%): 3 Age since last fire: > 5
Pebble Type: Angular : [✓ Subangular] : Rounded	Pebble Size: <1mm : <1cm : [✓ <10cm] : [✓ <20cm] : [✓ >20cm]

Vegetation Description: Woodland of Euc marg + Cor caly over Bank grandis over Xanthorea

Condition=3-4 (good but weedy).

Coll. No.	Species	Ht (cm)	%A	%D
	Euc mar	25m	3	
	Cor calyp	16m	25	
	Banksia grandis	6m	8	
	Xanthorrhea preisii	180	8	
	Xanth gracilis	150	5	
	Styphelia tenuiflora	90	4	
	Patersonia umbrosa subsp xanthina		2	
	Tetraria capillaris	80	3	
	Tetrarhena laevis	30	0.5	
	Hibbertia cunninghamii	60	1.5	
	Hakea lissocarpa	140	0.5	
155	Daviesia physodes	60	1	
	Haemodorum paniculatum	30	0.1	
	Daucus glochidiatus	10	0.1	
	*Briza maxima	20	0.5	
	*Romulea rosea	10	0.5	
	Tetraria octandra	20	0.3	
	Xylomelum occident	4m	0.3	

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
	Pterostylis vitata	20	0.1	
	Bossiae ornata	20	0.4	
	Labichea punctata	30	0.5	
	Lepido squamatum	40	0.5	
	Hibbertia hypericoides	40	1	
	Euc marg + Cor cal seedlings	20	0.5	
	Drosera pallida	5	0.1	
	Drosera menziesii	5	0.1	
	Leschenaultia biloba	10	0.2	
159	Boronia spathulata	30	0.2	
	Thelymitra sp.	20	0.01	
	Stylidium calcaratum	10	0.01	
	Stylidium piliferum	5	0.01	
	Lagenifera hueg	5	0.1	
	Trifolium sp.	10	0.1	
	Caladenia flava	15	0.1	
	Hypochaeris glabra	5	0.2	
	Petrorhagia velutina	10	0.2	
	*~~Seradella~~ Ornithopus compressus	10	0.01	
160	Acacia nervosa	20	0.01	
	~~Ara~~ Agrostocrinum scabrum			
	Hovea trisperma			
	Gompholobium polymorphum			
153	Pimelea rosea subsp. rosea			
	Dampiera linearis			
	Acacia pulchella			
	Kennedia coccinea			
132	Acacia flagelliformis (P4)			
137	colorata subsp colorata Crassula decumbens var decumbens			
	Hypocalymma angustifolium			
	Desmocladus fasciculatus			
	Hypolaena exsulca			
	Burchardia umbellata			
	Conostylis aculeata			
	Anarthria prolifera			
	Scaevola calliptera			

ok in
seed
book →
pps

Nuytsia flori

Adenanthos barbiger
Lomandra preissi
Daviesia ~~phyllodifolia~~ physodes
Adenanthos meisneri
Casytha racemosa
Lomandra ~~hirsuta~~ hermaphrodita
Acacia stenoptera
150 Hibbertia vaginata
152 Acacia semitrullata (P3)
Trichoryne elatior
Stylidium brun
Bossiae eriocarpa
Dasypogon hookeri
Chorizema nana
~~Meso~~ Mesomelaena tetragona
*Leptosperma ~~laetogartum~~
laevigatum

Vegetation Survey Sheet

removed pegs

Project:	Initials:	Site No: 3.3
Date: 27/9/02	Film No: 3 + 4	Photo No: 28 + 1

Location: NE corner of main block	GPS: 384 580
	6295 258

Topography: Br : R : [✓ US] : MS : LS : DL : MiC : MaC	Aspect: N : NW : [✓ W] : SW : S : SE : E : NE : N/A
Outcropping: laterite Num : Mod : [✓ Occ]	Litter Cover (%): Litter Type: ..... Logs 5.. Twigs 35. Leaves
Soil Ratio: ..... Clay ..... Silt ..... Sand	Bare Ground (%): —
Soil Colour: sandy clay	Age since last fire: >5
Pebble Type: lat Angular : [✓ Subangular] : Rounded	Pebble Size: <1mm : [✓ <1cm] : [✓ <10cm] : [✓ <20cm] : >20cm

Vegetation Description:

Condition = 4

Coll. No.	Species	Ht (cm)	%A	%D
	Euc marg	18m	10	
	Corymbia haematoxylon	12m	5	
	Nuytsia flor	9m	0.5	
	Xanthorrhea preissi	180	8	
	Patersonia umbrosa subsp xanthina		3	
	Hibbertia hypericoides	30	1	
	Chamaescilla corymbosa	50	0.5	
	Xanth gracilis	130	3	
162	Drosera stolonifera subsp stolonifera	5	0.1	
	Tetrari octanda	40	1	
159	Boronia spathulata	40	0.3	
	Burchardia umbell	20	0.2	
	Mesomelaena tetragona	80	2	
	Acacia stenoptera	60	0.5	
	Desmocladus fasciculatus	30	0.2	
	Calothamnus sanguineus	60	0.5	
	Lindsaea linearis	5	0.01	

↑ fern

Vegetation Survey Sheet

[illegible] orchid purple

Coll. No.	Species	Ht (cm)	%A	%D
163	Conostylis setigera ssp. setigera	20	0.5	
	[illegible] cal	20	0.1	
	[illegible] canea	30	0.5	
164	Dryandra ~~nivea~~ lindleyana subsp. lindleyana	10	1	
	Anarthria prolifera	10	0.3	
	Xanthosia pusilla	10	0.1	
165	Sphaerolobium drummondii	40	0.1	
	~~Hypocalymma~~ Scaevola calliptera	30	0.2	
	Dasypogon bromeliifolius	50	0.3	
	Lomandra sericea	30	0.2	
	Lomandra hermaphrodita	30	0.1	
	Schoenus curvifolius	40	0.1	
159	Boronia spathulata	30	0.1	
	Caladenia flava	20	0.1	
	Acacia applanata	30	0.1	
	Desmocladus [illegible]	20	0.1	
	Hypochaeris glabra	5	0.1	
	Labichea punctata	20	0.1	
	Gompholobium marginatum	30	0.1	
	Adenanthos barbiger	20	0.1	
	Logania serpyllifolia	20	0.1	
150	Hibbertia vaginata	20	0.1	
	Hemiandra pungens	10	0.1	
~~175~~	~~Schoenus 1 head~~			
	Mesomelaena gracilis	70	0.3	
	~~(Grass weeds)~~ *Bromus diandrus	20	0.5	vv
	Briza max	20	0.5	
	Ehrharta longiflora	20	0.5	
	Anigozanthos humilis			
	Kingia australis			
	Xylomelum occidi			
	Lechenaultia biloba			
	Haemodorum ?paniculatum			
	Lyginia barbata			
	Conostylis aculeata			
132	Acacia flagelliformis (P4)			

Lomandra preissii
95 Spider orch Caladenia ?speciosa ← Andrew Brown
Lagenoph. huegelii
Banksia grandis [illegible]
Cyathochaeta avenacea
Gompholobium tomentosum
Macrozamia reidlei
Conostylis serrulata
*Ursinia anthemoides
Kennedia coccinea
Egrostocrinum scabrum
153 Pimelea rosea subsp rosea

Vegetation Survey Sheet

Project:	Initials:	Site No: 3.4
Date: Sat 28/9/02	Film No: # 4	Photo No: 2 + 3

Location: [illegible] Creek, Sth boundary of Site 3	GPS: 382930 6293652

Topography: Br : R : US : MS : LS : [✓ DL] : MiC : MaC	Aspect: N : NW : W : SW : S : [✓ SE] : E : NE : N/A
Outcropping: Num : [✓ Mod] : Occ	Litter Cover (%): Litter Type: 5 Logs 10 Twigs 85 Leaves
Soil Ratio: ..... [✓ Clay] ..... Silt ..... Sand Soil Colour:	Bare Ground (%): Age since last fire: > 5
Pebble Type: Angular : [✓ Subangular] : Rounded	Pebble Size: <1mm : [✓ <1cm] : <10cm : <20cm : >20cm

Vegetation Description: Low forest of Corym cal over Agonis flex
over weeds
Parkland
Condition = 5, weedy but some mid-low storey

Coll. No.	Species	Ht (cm)	%A	%D
	Corymbia calo	15m	60-70%	
	Agonis flexuosa	9m	50	
	Trymalium floribundum	4m	2	
	Macrozamia reidlei	30	0.5	
49	Lepidosperma longitudinale	40	0.5	
	~~*[illegible]~~			
	Ehrharta longiflora	15	~~0.5~~ 5	
E 2	*Oxalis corniculata	5	1	
	Briza maxima	20	~~[illegible]~~ 5	
	Haemodorum sp.	30	0.01	
	Chamaescilla corymbosa	30	0.01	
	corym calo seedlings	5	0.01	
	Lepido ~~angustatum~~ squamatum	20	0.01	
	~~Grass [illegible]~~			
opps	Clematis lincans			
	Euc rudis			
	Adiantum aethiopicum			

Acacia pulchella

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
165	Lepido tenue			
	Eragrostis curvula			
	Chorizema nana			
	Acacia urophylla			
	Romulea rosea			
167	~~Opp leaves~~ Tremandra diffosa			
	Solanum nigrum (N[illegible]			
	*Soparax (white lily fam)			
	Caesia parviflora			
	Hibbertia amplexicaulis			
168	Big hs. Asteraceae sp.			
	Anagallis arvensis blue			
	Geranium mollee			
169	Juncus usitatus			
	*Dock Picris squamosa			
	Xanthorea gracilis			
	Asparagus asparagoides			
170	Drosera ?marchantii subsp. marchantii (P4)			
	Euc marg (jarrah [illegible])			
	Dichopogon capillaris			
	Avena barbata			
	Hardenbergia comp.			
	Oxalis pes caprae			
w̄ EB167	* Eragrostis curvula			

Vegetation Survey Sheet

[illegible]

Project:	Initials:	Site No: 61
Date: Sep 28/4	Film No: 3	Photo No: 4 + 5

Location:	GPS: 417 299 6[illegible]384

Topography: Br : R : US : [✓ MS] : LS : DL : MiC : MaC	Aspect: N : NW : W : SW : S : SE : [✓ E] : NE : N/A
Outcropping: laterite Num : Mod : [✓ Occ]	Litter Cover (%): Litter Type: – Logs 5 Twigs 30 Leaves
Soil Ratio: ..... Clay ..... Silt ..... Sand	Bare Ground (%): –
Soil Colour: sandy clay	Age since last fire: > 5
Pebble Type: laterite Angular : [✓ Subangular] : Rounded	Pebble Size: <1mm : [✓ <1cm] : [✓ <10cm] : <20cm : >20cm

Vegetation Description: Open Woodland of Euc marg + Cor cal over Shrubland of Xanth + Acacia over mixed shrubs – ~~[illegible]~~ dieback –
Condition = 3 (edge [illegible] degraded · 20m from [illegible] 5m)

Coll. No.	Species	Ht (cm)	%A	%D
	Euc margin	14m	~~[illegible]~~ 10	
	Cor calo	0/h	20	
	Xanthorrea preissii	160	6	
	Oxylobium lat Y. [illegible]	200	4	
135[illegible]	Acacia ~~extensa~~ flagelliformis (P4)	180	3	
	Patersonia umbrosia subsp xanthina	30	5	
	Acacia pulchella	80	3	
	Isopogon sphaerocephalus	60	1.5	
	Hibbertia sp.	20	0.1	
	[illegible]	20	0.5	
	Thysanotus sparteus	20	0.1	
	Tetraria octandra	30	0.3	
	Daviesia ~~[illegible]~~ physodes	50	0.2	
	Gompholob knightian	40	1	
	Hypocalymma robustum	60	2	
	Bossiaea ornata	20	0.5	
	[illegible]	30	1	

Vegetation Survey Sheet.xls

Vegetation Survey Sheet

Coll. No.	Species	Ht (cm)	%A	%D
	Gompholobium marginatum	30	0.1	
	Xanthosia huegelii	20	0.2	
	[illegible]	30	0.3	
172	Gompholobium preissii	30	0.3	
	Astroloma prostratum	20	0.3	
156	Tetratheca hirsuta	20	0.1	
171	Hibbertia mylnei	30	0.1	
	Stylidium brunonianus	10	0.01	
	Stylidium amoenum	5	0.01	
	Conostylis setigera	20	0.3	
	Burchardia umbellata	40	0.1	
	Cassytha racemosa	CR	0.1	
159	Boronia spathulata	40	0.1	
	Lepidosperma squamatum	30	0.1	
162	Drosera stolonifera ssp. stolonifera	20	0.05	
	Acacia stenoptera	40	0.3	
	Adenanthos barbiger	30	0.5	
160	Acacia nervosa	20	0.1	
	Loxocarya cinerea	5	5	
	Tetraria capillaris	30	0.2	
	Hibbertia hypericoides	30	0.3	
155	Daviesia physodes	30	0.5	
	[illegible]	10	5	
	Styphelia tenuifolia	30	0.5	
	Hakea amplexi	40	0.2	
	Dampiera linearis	10	0.2	
	Sowerbaea laxiflora	20	0.2	
	Astroloma ciliatum	10	0.3	
	Acacia [illegible]	40	0.3	
	Kennedia prostrata	CK	0.2	
	Drosera erythrorhiza	10	0.1	
	Anarthria scabra	10	0.1	
	Caladenia flava	10	0.01	
	Pterostylis vittata	10	0.01	
	Caesia parviflora	10	0.01	

[illegible] Wawi

[illegible]

61 cont.

Watsonia bulbi 10 0.01
Chamaescilla corymbosa [illegible] 0.01

Opps Banksia grandis
Banksia attenuata
Agonis flexuosa
Hibbertia cunninghamii!
95 Caladenia ?speciosa - Andrew Brown
Logania serpillifolia
Dasypogon bromel
153 Pimelea rosea subsp. rosea
Hypochaeris glabra
Nuytsia flor
Adenanthos meisneri
Kunzea fesitita
Melaleuca thymoides
Conostylis aculeata
Lyginia barbata
Hypolaena exulca
Leschenaultia biloba
Burtonia conferta (?Gompholobium)
Labichea punctata
Lomandra sericea
Desmocladus fasciculatus
Stylidium schoenoides

sandy interzone downslope

Date	Site	*	Species	Ht (cm)	CA (%)	Status
24/09/02	8.4		Conostylis aculeata subsp. aculeata	20	0.1	
24/09/02	8.4	*	Ehrharta longiflora	40	0.1	
24/09/02	8.4		Leucopogon capitellatus	30	0.1	
24/09/02	8.4		Astartea fasicularis	300	0.5	
24/09/02	8.4		Melaleuca viminea subsp. viminea	400	0.5	
24/09/02	8.4		Acacia pulchella var. glaberrima	150	1	
24/09/02	8.4		Eucalyptus rudis subsp. rudis	1000	1	
24/09/02	8.4		Jacksonia furcellata	500	2	
24/09/02	8.4	*	Oxalis glabra	10	2	
24/09/02	8.4	*	Oxalis pes-caprae	10	2	
24/09/02	8.4		Baumea juncea	0.8	5	
24/09/02	8.4		Casuarina obesa	600	10	
24/09/02	8.4		Corymbia calophylla	1200	10	
24/09/02	8.4	*	Watsonia meriana var. bulbillifera	100	90	
24/09/02	8.4		Acacia saligna	opp		
24/09/02	8.4		Agonis flexuosa var. flexuosa	opp		
24/09/02	8.4		Conyza sp.	opp		
24/09/02	8.4	*	Ehrharta calycina	opp		
24/09/02	8.4		Hakea prostrata	opp		
24/09/02	8.4	*	Pennisetum clandestinum	opp		
23/09/02	9.1	*	Apium graveolens	20	0.01	
23/09/02	9.1		Conyza sp.	30	0.01	
3/09/02	9.1	*	Pennisetum clandestinum	10	0.01	
23/09/02	9.1	*	Sonchus oleraceus	10	0.01	
23/09/02	9.1	*	Solanum americanum	30	0.05	
23/09/02	9.1	*	Solanum nigrum	50	0.05	
23/09/02	9.1	*	Vicia sativa subsp. nigra	10	0.05	
23/09/02	9.1		Carex appressa	200	0.1	
23/09/02	9.1		Cassytha racemosa forma racemosa	cr	0.1	
23/09/02	9.1		Hibbertia cuneiformis	50	0.1	
23/09/02	9.1	*	Sonchus asper subsp. glaucescens	20	0.1	
23/09/02	9.1		Rhadinothamnus anceps	200	0.3	
23/09/02	9.1	*	Solanum laciniatum	80	0.3	
23/09/02	9.1	*	Zantedeschia aethiopica	40	0.3	
23/09/02	9.1		Centella asiatica	15	0.5	
23/09/02	9.1		Baumea juncea	40	5	
23/09/02	9.1		Pteridium esculentum	40	5	
23/09/02	9.1		Rhagodia baccata subsp. baccata	300	5	
23/09/02	9.1	*	Stellaria media	10	10	
23/09/02	9.1		Calycopeplus oligandrus	300	15	
23/09/02	9.1		Gahnia trifida	250	20	
/09/02	9.1	*	Holcus lanatus	30	40	
23/09/02	9.1		Lepidosperma gladiatum	300	50	
23/09/02	9.1		Acacia saligna	opp		
23/09/02	9.1		Adriana quadripartita	opp		
23/09/02	9.1		Banksia littoralis	opp		
23/09/02	9.1	*	Cirsium vulgare	opp		
23/09/02	9.1		Cotula coronopifolia	opp		
23/09/02	9.1	*	Cotula turbinata	opp		
23/09/02	9.1	*	Cynodon dactylon	opp		
23/09/02	9.1		Cyperus congestus	opp		
23/09/02	9.1	*	Erodium cicutarium	opp		
23/09/02	9.1	*	Euphorbia peplus	opp		
23/09/02	9.1		Geranium retrosum	opp		
23/09/02	9.1	*	Hordeum vulgare	opp		
23/09/02	9.1		Hydrocotyle tetragonocarpa	opp		
23/09/02	9.1		Isolepis nodosa	opp		
23/09/02	9.1	*	Isolepis prolifera	opp		
23/09/02	9.1	*	Juncus bufonius	opp		
23/09/02	9.1		Juncus pallidus	opp		