

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Avonlea Sotters Common SITE NUMBER ARSC01

DATE TRIP 14/10/96 RECORDERS AMa LM

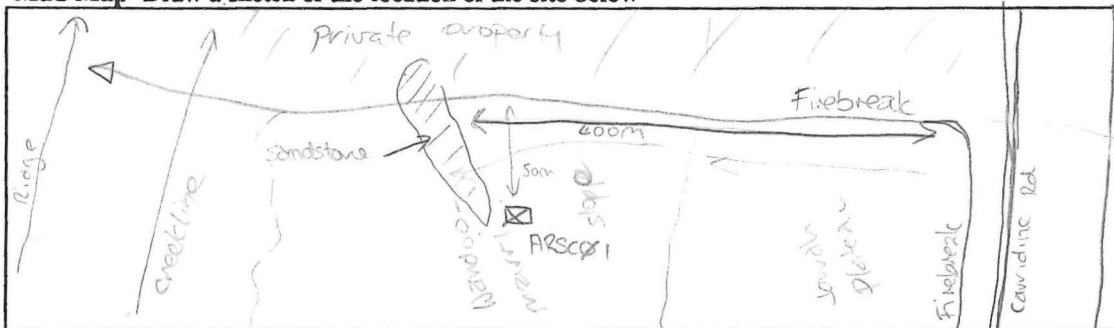
DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

Large blackboys in corner

Mud Map Draw a sketch of the location of the site below



- From Cavendish Road

Road Location x Firebreak on north boundary of ARSC -> 100m patch

Geographic Location Latitude 32 09 11.3 S Longitude 116 02 15.6 E Altitude 220m
GPS Accuracy 2.7
Map Sheet KELMSCOTT

Photograph Name _____ Number # 17 Roll 3

Topographic Position (Circle the correct response)
Upland _____ Lower slope _____
Upper slope _____ Valley _____
Midslope (B) Washline _____
4- still d/slope

2. SITE DATA Circle the correct response

Slope flat gentle steep Aspect N NE E SE S SW W NW

Surface Soil gravelly clay Depth to Rock >1m Colour orange

Exposed Rock type laterite % surface cover 10% size range 1cm - 8cm

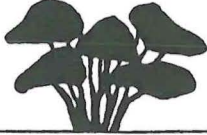
Litter 30 % surface cover Depth (cm) 2-5cm (by 1-2 layers)

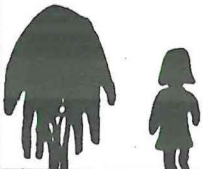
Bare Ground 15 % surface cover

Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	2-10%	10-30%			
DOMINANT SPECIES	<i>E. calophylla</i>	<i>E. wandoo</i> <i>E. calophylla</i> = Woodland			

	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10%			30-70%	>70%
DOMINANT SPECIES	<i>X. praeii</i> (2% - emergent)		<i>H. lissocarpa</i>	<i>H. lissocarpa</i> <i>X. praeii</i>	<i>Dry nipa</i> <i>Hibb. hypericoides</i> <i>Baeckea conchata</i>

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		2-10%			
DOMINANT SPECIES		<i>Senecio</i> sp. <i>Elymus calcaratus</i> <i>Styl. calcaratum</i>			

Muir Classification Code = 7

4. VEGETATION CONDITION

Comments * Burn 1992 - (1994?). Prob. 1992-1993.
E. wandoo / Marri open woodland. Tall woodland with
 low *calophylla* understory. Weed invasion from
 adjacent, frequent burnt property. 3½ - 4. *Senecio* invasion

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No ARSC 1

Date 14.10.96

11.12.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. wandoo	✓		✓	Conocarpus cordiger	✓		✓	Hyalosperma rotula	✓	✓	✓
Euc. calophryna	✓		✓	Levenhookia stipitata	✓	✓	✓	Thysanotus sparteus	✓		✓
Pimelea ciliata	✓	✓	✓	Thysanotus asper (sl. v. ang)	✓	✓	✓	Conostylis setigera setigera	✓	✓	✓
Allocasuarina humilis	✓	✓	✓	Cassutha paniculata	✓	✓	✓	Chaenactis corymbosa	✓	✓	✓
Grevillea pilulifera	✓	✓	✓	Drosera merrillii	✓	✓	✓	ADS: Diuris corymbosa	✓		✓
Daviesia decurrens	✓	✓	✓	Thelymitra citrata	✓	✓	✓	Stylidium byrostachyum	✓		✓
Pimelea imbricata v. pubigata	✓	✓	✓	Drosera erythrorhiza	✓		✓	Pterocladia paniculata	✓	✓	✓
Astroloma pallidum	✓	✓	✓	Romulea rosea	✓		✓	Orobanchae minor	✓		✓
Nemcia capitatum	✓	✓	✓	GRASSES				Chaenactis corymbosa	✓		✓
Hibbertia ovata	✓	✓	✓	Buzia minor	✓	✓	✓	Hypoxis occidentalis	✓		✓
Hibbertia commutata	✓	✓	✓	Aira caryophylla	✓	✓	✓	Hypochaeris glabra	✓		✓
Eriostemon spicatum	✓	✓	✓	Amphipogon pulvinatus	✓	✓	✓	Levenhookia pusilla	✓	✓	✓
Conostylis aculeata preissii	✓	✓	✓	Poa drummondiana	✓	✓	✓	Tripterocephalus bunonis	✓		✓
Olearia paucidentata	✓	✓	✓	Tetramblea laevis	✓		✓	Thysanotus marginatus	✓		✓
Gompholobium polyanthum	✓	✓	✓	Tanmorina setacea	✓	✓	✓	Homalotriadium homalocarpum	✓		✓
Hibbertia hypericoides	✓	✓	✓	Neracanthus aspericarpus	✓		✓	Xanthoxia candida	✓		✓
Hypocalymma angustifolium	✓	✓	✓	St Vulpia bromioides	✓		✓	Haemodorum sp. indet	✓		✓
Lechenaultia biloba	✓	✓	✓	Agrostis avenacea	✓	✓	✓	Thysanotus tenuellus	✓		✓
Charisma dicksonii	✓	✓	✓	HERBS				Homalotriadium homalocarpum	✓		✓
Gompholobium marginatum	✓	✓	✓	Senecio. diaschiideo	✓	✓	✓	Cassutha racemosa	✓	✓	✓
Dryandra bipinnatifida	✓	✓	✓	Thysanotus thursoides	✓	✓	✓	Centrolepis drummondiana	✓		✓
Acacia teretifolia	✓	✓	✓	Stylidium bulbiferum	✓	✓	✓	SEDGES			
Gom Dryandra lindleyana lindleyana	✓	✓	✓	Stylidium bunonianum	✓	✓	✓	Tetragonia octandra	✓		✓
Nemcia reticulata	✓	✓	✓	Burchardia congesta	✓	✓	✓	Schoenus grammatophyllus	✓		✓
Xanthorrhoea preissii	✓	✓	✓	Trachymene pilosa	✓	✓	✓	Democladus aspera	✓	✓	✓
Acacia pulchella	✓	✓	✓	Hydrocotyle callicarpa	✓	✓	✓	Schoenus nanus	✓		✓
Baeckea camphorosmae	✓	✓	✓	Dampiera linearis	✓	✓	✓	Mesomelaena tetragona	✓	✓	✓
Halkea undulata	✓	✓	✓	Scheuchzeria callicarpa	✓	✓	✓				
Halkea lissocarpa	✓	✓	✓	Craspedia variabilis	✓	✓	✓	Arthropodium capillipes	✓		✓
Grevillea bipinnatifida	✓	✓	✓	Mitella tenuifolia tenuifolia	✓	✓	✓	Tetragonia hirsuta setigera	✓		✓
Xanthorrhoea gracilis	✓	✓	✓	Anagallis arvensis	✓	✓	✓	Lagenifera megelii	✓		✓
				Stylidium calcaratum	✓	✓	✓	Lomandra ? micrantha ?	✓		✓

Petrophile spicata

Lomandra ? caespitosa

not styl. pycno

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5. SPECIES PRESCENCE

SITE No ARSC01

Date 14.10.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Adjacent → Caladenia longicauda
→ Pterostichia occidentalis
→ Ptilotus manglezi

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
B. calophylla	✓			Levanthotia sp.	✓			Hypochaeris glabra	✓		
B. wandoo	✓			Tetralia octandra	✓			Centropus drummondii			
				Hakea lisocarpa	✓			Thysanotus manglezi (climber)			
SHRUBS				Dryandra nivea	✓			Neurachne allopocunoides			
Xant preisii	✓			Grevillea pillulifera	✓			Xanth. gracillous	✓		
Dry river (indleyana)	✓			Zestenaudia biloba	✓			Drosera? menziessii			
MALLEES				Grevillea bipinnatifida	✓			Thysanotus sp (long flat leaves)			
Daviesia praeae decumens	✓			Astroloma sp.				or (Grevillea) Burgardia ramosa	✓		
Hilob. hypericoides	✓			GRASSES				Nemisia? sp.	✓		
Hilob. commutata	✓			Poa sp.	✓			Lagenophora huegii Lagenophora huegii			
Acacia pulchella	✓			Aira sp.	✓			Templetonia? (unid. poa)	✓		
SHRUBS				Scroph. Scrophulariaceae				Sheenus sp (black base)	✓		
Clomd. marginatum	✓			Anagallis arvensis				Eriostemon spicatum	✓		
Allocas humilis	✓			Aira carophylla	✓			SEDGES			
Baedeia amphioxysae	✓			Sheenus (Annual small)				Lepidosperma angustatum			
Triglochin (sp)				Tetralena hirs. laevis				Lepidosperma (terete, smooth)	✓		
Chorizandra dicksonii				Oleracis paucidentatis				Stipa sp.			
P. ciliata	✓			Scorvella phelipetala				Hemodorum sp (strob. leaf)			
Pimela? (silvestris)	✓			HERBS				Lomandra proserpi. (P. margins)			
Waitzia paniculatum				Senecio sp.	✓			Lomandra (?) cepitosa			
Carotatis? (dent. margin)				Stylidium bulbiferum				Dampiera linearis			
Lexocarya flexuosa	✓			Stylidium calcaratum	✓			Leek Orchid (40cm)			
Dryandra bipinnatifida	✓			Romulea rosea				Small Thysanotus (Basal Rosette)			
Triphococcus spp.	✓			Heliadryum cartula				Cassipha racemosa	✓		
Pimp. indivicata	✓			Stylidium brunonianum	✓			Petrophile striata			
Danthonia sp.	✓			Hydrangea sp				Hypocalymma angustifolium	✓		
Caecilia setosa X??				Telamitra sp (crineta)				Conostylis aculeata	✓		
Chenocilla canabosa	✓			Arthropodium? capillipes				Gonocarpus herbiculus??			
Trachymene pillosa	✓			Breeze minor				Leek Orchids (50cm)			
Homa-homalocarpus				Hypoxis?				Thysanotus spartius?	✓		
Hakea undulata	✓			Unidentified (Orobanchae)				Thysanotus (single terete leaf)			
Xanthosia candida	✓			Breeze maximae	✓			Sheenus sp (white papery base)	✓		
Diosora erythroliza				Acacia pulchella ✓				Grasspelia sp.			
				Tetatheca hirsuta				Hypoxis sp			

Common Grass

Gonyphlebium

Hammodorum

Hispidula

Oreocarya

Gonocarpus

Leek Orchid

Thysanotus

Sheenus

Lomandra

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No *ARSC 81*
 Date *4 Feb 11:12-96*
Reserve

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Conostylis sericea? - sericea //

Cassipouia glabella //

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				<i>Hypocalymma coriacea</i>				<i>Danthonia</i> sp.			//
								<i>Helipterum coriacea</i>			//
								<i>Primula imbricata</i>			//
								<i>Asteriscus pilulifera</i>			//
								<i>Styphelia tenifolia</i> ? <i>Asteriscus</i> ?			//
								<i>Cassipouia glabella</i>			//
MALLEES								<i>Oxylobium / Nemcia capitatum</i>			//
								<i>Asteriscus</i> sp (sparse inflo)			//
				GRASSES				<i>Hypocalymma angustifolium</i>			//
								<i>Burdirobia congesta</i>			//
SHRUBS								<i>Orthrosanthus laxus</i> ?			//
								SEDGES			
								<i>Tet. octandra</i>			//
								<i>Loranthia puilla</i>			//
								<i>Hydrocotyle</i>			//
								<i>Mesembryanthemum tetragynum</i>			//
				HERBS				<i>Thysanotus sparsus</i>			//
								<i>Conostylis</i> sp <i>circulata</i>			//
								<i>(c. sericea?)</i>			
								<i>Uroserica</i> ?			//
								<i>Poa</i> sp			
								<i>Gnaphalium polyanthum</i>			//
								<i>Acacia tenetifolia</i>			//
								<i>Waigia paniculata</i>			//
								<i>Lorocarya flexuosa</i>			//

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Armadale Sattlers Common SITE NUMBER ARSC02

DATE TRIP 14/10/96 RECORDERS Am & LM

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location Firebreak ~ 200m up from valley / creekline

Geographic Location Latitude 32° 09' 16.6" S Longitude 116° 02' 11.4" E Altitude 210m
GPS ✓ Accuracy PDOP 3.4 (5 SAT)
Map Sheet KELMSCOTT

Photograph Name _____ Number #19 - of heavily burnt A-pudda scrub
#20 - #21 Roll #3

Topographic Position (Circle the correct response)
Upland Upper slope → 4 Lower slope Valley
Midslope _____ Washline _____

2. SITE DATA Circle the correct response

Slope flat gentle steep Aspect (N) NE E SE S SW W NW

Surface Soil gritty sil Depth to Rock 0-30cm Colour coffee-brown

Exposed Rock type granite % surface cover 40 size range 1cm - 60cm

Litter 2 % surface cover (negligible) Depth (cm) 1cm

Bare Ground 30 % surface cover)

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Mulr)- use pencil only

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below), and dominant species in each layer.

Cover Class		2-10%	10-30%	30-70%	over 70%
TREES					
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2% (Occasional)		10-30%		30-70%
DOMINANT SPECIES	Xan. preissii		Xan. preissii Drosera horrida		Melaleuca scabra Dry nivea Baobab camphorosa
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10%	10-30% 2-10%			
DOMINANT SPECIES	Neurachne alopec.	Haemodorum sp. Tripterocarpus Stylidium bulbosum			

4. VEGETATION CONDITION

Comments : ~~Inspected~~ Recent burn & prob frequent fire history.

$3\frac{1}{2} - 4$ (few words)

* well drained part of granite-derived slope. Adj. →
Tribonanthes associated with drainage line.

ADS: Heavily wooded + weedy private property.

3.0

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA _____ SITE NUMBER ARSC02

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below

32 09 15.7
116 02 11.3

32 09 16.6
116 02 11.4
PDOP 3.4
S SATS

HDOP
2.4
4 SATS

Road Location

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude
---------------------	------------------------------	-------------------------	------------

Photograph	Name	Number
------------	------	--------

Topographic Position Upland Upper slope Midslope	(Circle the correct response) Lower slope Valley Washline
--	--

2. SITE DATA Circle the correct response

Slope flat gentle steep	Aspect N NE E SE S SW W NW
-------------------------------	--

Surface Soil	Depth to Rock	Colour
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Exposed Rock type	% surface cover	size range
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Litter	% surface cover	Depth (cm)
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Bare Ground	% surface cover)
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Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

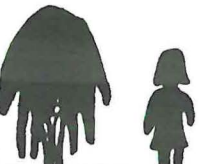
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Mulr)- use pencil only

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below), and dominant species in each layer.

Cover Class	2-10%	10-30%	30 - 70%	over 70%
-------------	-------	--------	----------	----------

TREES				MALLEES	
	over 15m	5 - 15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

GRASSES		HERBS		SEDGES	
	over 0.5m		over 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No ARSC02
Date 14.10.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	SHRUBS	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Xanthorrhoea preissii					Pterochaeta paniculata				Lindum trigynum			
Daveia horrida					Xanthorrhoea huegelii (Not Actinotus)				Homaloea capium homalosciades			
Baeckea canthosmae					Crassata sp?				Centrolepis drummondiana			
Acacia pulchella					Haemodorum simplex (id?)				Trachymene pilosa			
Grevillea bipinnatifida					Burhardia longata				Millotia tenuifolia tenuis			
Gastrolobium spinosum									Levenhookia stipitata			
Verticordia huegelii?									Hydrocotyle callicarpa			
Gompholobium marginatum					Neurachne alpeceuroidea				Conostylis seligera			
Leucopogon gracillimus seedling					GRASSES				Actinotus leucocephalus			
Chorizandra dicksonii					Braja maxima				Bartsia trixago			
Pimelea imbricata peligera					Stipa compressa				Thysanotus spartens			
Hibbertia ovata / comutata					Amphipogon turbinata				Chamaecilla corymbosa			
Phyllanthus calycinus					Amphipogon sp. indet				Drosera menziesii			
Leucopogon gracillimus					Stipa pycnostachya				Stylidium budronianum			
Hibbertia aurea					Aiva canyophylla				Goodenia caerulea			
Metastelma aff. serra					Danthania sotacea				Stylidium bulbiferum			
Pimelea imbricata peligera					Vulpia bromoides				Drosera erythroniza			
Daveia horrida					Amphipogon strictus				Agrostovinum scabrum			
Cryptandra arbutifolia (sterile)					HERBS				Haemodorum sp? indet			
Synsphaea gracilima					Opercularia vaginatum				Haemodorum discolor			
Dryandra lindleyana lindleyana					Triptero-carci's brunonis				Lebelia sp. seedling			
Hibbertia hypericoides					Ursinia anthemoides				SEDGES			
Hibbertia huegelii (?)					Bouya sphaerocephala				Tetaria octandra			
Ph.					Delocio diaschides				Schoenus nanus			
ADS: Halkea stenocarpa					Laxmannia squarrosa				Desmodadus aspera			
					Haemodorum latum				Schoenus sp (black base)?			
					Lebelia heterophylla				Schoenus grammatophyllus			
					Hyalosperma rotata				Schoenus			
					Haemodorum sp. ? (simplex)? indet				Parentucellia viscosa			
					Cassipoua pomiformis							
					Lomandra succreolens							
					Orbanchae minor							

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No 00 ARSC02

Date 14.10.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 Identification check

Adjacent → *Heterostachys* *Stereocarpus*
Tribonanthes = wet regia

TREES	SHRUBS	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Xan. preussii</i>	✓								<i>Urtica</i>			
<i>Melaleuca scabra</i>	✓			2					<i>Hudcotea</i> (Acacia)			✓
<i>Gompholobium Murrillii</i>				2					<i>Crassula</i> sp.			
<i>Dalmanella horrida</i>	✓			2					<i>Schoenus</i> (black bases)	✓		
<i>Baeckera canthorismae</i>	✓			2					<i>Centropogon drummondii</i> (?)			✓
<i>Acacia anacholia</i>	✓			2					<i>Valpa</i> sp.			✓
MALLEES									<i>Trichloria</i> (?) <i>Tricoryne</i> ?			✓
<i>Suriana? petiolaris</i>				2					<i>Scroff</i> (small)			✓
<i>Veronica? huegii</i>					GRASSES				<i>Drosera erythrorhiza</i>			✓
<i>Moziera dicksonii</i>	✓			2	<i>Neurachne alopecuroides</i>	✓			<i>Amphipogon</i> sp.	✓		✓
<i>Grevillea bipinnatifida</i>					<i>Dwarf Stipa</i> sp. = <i>S. complanata</i>				<i>Leptocarpus</i> sp.	✓		✓
SHRUBS									<i>Chamaecrista</i> sp.			✓
<i>Conostylis setosa</i> (?)				2					<i>Anthania</i> sp.			✓
<i>Eucalyptus</i> (Lemon-scented)	✓			2					SEDGES			
<i>Pimelea pumila</i>	✓			2					<i>Small annual Schoenus</i>			✓
<i>Castolobium spinosum</i>	✓			2					<i>Comandra</i> (small) <i>Comandra</i>			✓
<i>Levanthia</i> sp.				2					<i>Comandra</i> (?) (small) <i>Comandra</i>			✓
<i>Harebom</i>				2					<i>Crassula</i> sp.	✓		✓
<i>Xanthosia huegii</i>				2	HERBS				<i>Microtus</i> (?) <i>Phobocarpus</i>			✓
<i>Melotia</i> sp.				2	<i>Tripterocarpus</i> = <i>brunonis</i>	✓			<i>Drosera menziesii</i> (climbing)			✓
<i>Stachys</i> (inf) <i>Sparganium</i>				2	<i>Haemodorum</i> sp.	✓			<i>Phyllanthus</i> seedling (?)			✓
<i>Dryandra nivea</i>	✓			2	<i>Stylidium bulbiferum</i>	✓			<i>Drosera</i> sp? (climbing)			✓
<i>Hibbertia comulata</i> (inf)				2	<i>Stylidium brunonianum</i>	✓			<i>Oenothera</i> sp.			✓
<i>Loxocarpus flexuosus</i>				2	<i>Laxmannia squarrosa</i>	✓			<i>Phyllanthus calocarpus</i>	✓		✓
<i>Leptodermis</i> (smooth bark)				2	<i>Ursinia anthemoides</i>	✓			<i>Haemodorum simplex</i>	✓		✓
<i>Xanthosia</i> (inf) (single leaf) = <i>Acinosis</i> ?				2	<i>Heliotropium</i> sp.	✓			<i>Berardia congesta</i> <i>Burchardia</i>	✓		✓
<i>Patersonia</i> (?) <i>Patersonia</i>				2	<i>Senecio</i> sp.	✓			<i>Braea maxima</i>			✓
<i>Hibbertia hirsutiuscula</i>				2	<i>Boragin</i> <i>sphaerocarpa</i> <i>sphaerocarp</i>	✓			<i>Unid. Dicot</i> (leafy stem entire bark) <i>Unid.</i>			✓
<i>Argemone</i> <i>scabra</i>				2	<i>Trachymene pilosa</i>	✓			<i>Ursinia anthemoides</i>	✓		✓
<i>Waitzia</i> sp.				2	<i>Unid. Dicot</i> (Asteraceae?)				<i>Lepidosperma</i> <i>scabrous</i>			✓
<i>Hibbertia huegii</i>				2	<i>Isolepis</i> <i>Schoenus nanus</i>							✓
				2	<i>Ara</i> <i>corylophylla</i>	✓						✓

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

Label each plant with plants number, site code, date and plant's name or working name if required

SITE No ARSC02

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Date 11-10-96

Reserve

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
								<i>Actinotus</i>			//
								<i>Wesinia anthemides</i>			//
								<i>Amylea imbricatum</i>			//
								<i>Amphipogon turbinatum</i>			//
MALLEES								Unia grass - short			
								<i>Loxocarya flexuosa</i>			//
				GRASSES				dop. knee rough			
SHRUBS								<i>Phyllanthus calycinus</i>			//
								SEDGES			
								<i>Oppecularia hispidula</i>			//
								<i>Agros. scabrum</i>			//
				HERBS				Purple Lobelia			//
								<i>Stipa elegantissima</i>			//
								<i>Laxmannia ? squarrosa</i>			//
								<i>Conostylis setigera</i> (short)			//
								<i>Waltia paniculatum</i>			//
								<i>Thysanotus sparsus</i>			//

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Upland Plateau Armadale Settlers Common SITE NUMBER ARSC03

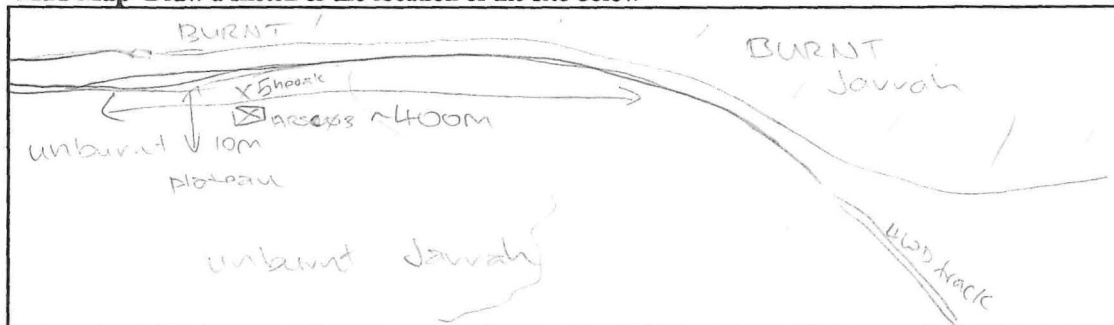
DATE TRIP 14.10.96 RECORDERS AM & LM

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location off Caradine Rd

Geographic Location Latitude 32° 09' 37.2" S Longitude 116° 01' 55.5" E Altitude 240m
GPS Accuracy POOP = 5.4
Map Sheet

Photograph Name Number 21 22
#21 + #22 Roll #3

Topographic Position (Circle the correct response)
Upland Lower slope
Upper slope
Midslope 5 Valley
Washline

2. SITE DATA Circle the correct response

Slope flat gentle steep Aspect N NE E SE S SW W NW

Surface Soil gravelly loam Depth to Rock 0-20cm Colour orange to dk brown

Exposed Rock type caliche % surface cover 40 size range 1cm - 40cm

Litter 780 % surface cover Depth (cm) 10-30cm

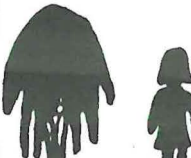
Bare Ground 2 % surface cover

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Mulr)- use pencil only

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.

Cover Class 2-10% 10-30% 30-70% over 70%

TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		30-70 10-30%	2-10%		
DOMINANT SPECIES		<i>B. marginata</i> (<i>B. cataphylla</i>) (10%)	<i>B. grandis</i>		
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		2% (emergent)		30-70%	
DOMINANT SPECIES	<i>Dry. sessilis</i>	<i>Dry. sessilis</i>		<i>Leucopogon</i> sp. <i>Grevillea wilsoni</i> <i>H. stenocarpa</i> <i>Boopis rhodantha</i> <i>Xanth. preicii</i>	<i>Dry. nuda</i> <i>Hibbertia</i> sp. <i>Hibb. hypericoides</i> <i>Leucopogon</i> sp.
GRASSES		HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)	10-30%			10-30%	
DOMINANT SPECIES	<i>Amphipogon</i>	<i>leaf litter!</i>		<i>Lepidosperma angustata</i> <i>Tetraria capitellata</i>	

4. VEGETATION CONDITION

Comments

No weeds 4 1/2 / 5! Excellent condition.
Escaped fire. A plateau. Lateritic epirode at
surface. Dieback adjacent (*B. grandis*).
* thick leaf litter occluded small herbaceous annuals!

105

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No ARSC03

Date 14.10.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Euc. calophylla</i>	✓		✓	<i>Dryandra lindleyana</i>	✓		✓	<i>Thysanotus multiflorus</i>	✓	✓	✓
<i>Euc. marginata</i>	✓		✓	<i>Dryandra sessilis</i>	✓		✓	<i>Burchardia congesta</i>	✓	✓	✓
<i>Gompholobium preissii</i>	✓	✓	✓	<i>Xanth. preissii</i>	✓		✓	<i>Trichocline spatulatum</i>	✓	✓	✓
<i>Acacia laterifolia</i>				<i>Hakea lissocarpa</i>	✓		✓	<i>Dampiera alata</i>	✓	✓	✓
<i>Astroloma pallidum</i>	✓		✓	<i>Ptilotus manglesii</i>	✓		✓	<i>Lomandra preissii</i>	✓	✓	✓
<i>Astroloma ciliatum</i>	✓	✓	✓	<i>Haemodorum sp. indet</i>	✓		✓	<i>Scaevola platyphylla</i>	✓	✓	✓
<i>Leucopogon capitellatus</i>	✓	✓	✓	<i>Athropodum capillipes</i>	✓		✓	<i>Tetrarhena hirsuta</i>	✓	✓	✓
<i>Leucopogon pulchellus</i>	✓	✓	✓	ADS: <i>Ambrosia fraseriana</i>	✓		✓	<i>Trichocline spatulatum</i>	✓		✓
<i>Styphelia tenuifolia</i>	✓	✓	✓	GRASSES				<i>Pterostylis recurva</i>	✓	✓	✓
<i>Leucopogon capitellatus</i>				<i>Amphipogon turbinata</i>	✓	✓	✓	<i>Thelymitra cincta</i>	✓	✓	✓
<i>Hibbertia hypericoides</i>	✓	✓	✓	<i>Tetrarhena laevis</i>	✓	✓	✓	ADS: <i>Lobelia charbifolia</i>	✓		
<i>Hibbertia amplexicaulis</i>	✓	✓	✓	<i>Amphipogon strictus</i>	✓	✓	✓	<i>Cassytha racemosa</i>	✓	✓	✓
<i>Hibbertia commutata</i>	✓	✓	✓	<i>Briza maxima</i>	✓		✓	<i>Thysanotus manglesianus</i>	✓	✓	✓
<i>Hibbertia aff. glomerata</i>	✓	✓	✓					<i>Lomandra odora</i>	✓	✓	✓
<i>Hakea stenocarpa</i>	✓	✓	✓					<i>Lomandra micrantha</i>	✓	✓	✓
<i>Isopogon sphaerocephalus</i>	✓	✓	✓					<i>Lomandra britanii</i>	✓	✓	✓
<i>Grevillea willsonii</i>	✓	✓	✓					<i>Tripterococcus punnensis</i>	✓		✓
<i>Adenanthos barbigerus</i>	✓	✓	✓	HERBS				<i>Thelymitra cincta</i>	✓		✓
<i>Grevillea synaphea</i>	✓	✓	✓	<i>Dampiera linearis</i>	✓	✓	✓	<i>Lomandra nigricans</i>	✓	✓	
<i>Labechia punctata</i>	✓	✓	✓	<i>Pentapeltis peltigera</i>	✓	✓	✓	SEDGES			
<i>Acacia barbinervis</i>	✓	✓	✓	<i>Opercularia echinocephala</i>	✓	✓	✓	<i>Tetraria capillaris</i>	✓	✓	✓
<i>Gompholobium knightianum</i>	✓	✓	✓	<i>Xanthosia huegelii</i>	✓	✓	✓				
<i>Hovea chorizemifolia</i>	✓	✓	✓	<i>Stylidium (Schoenioides) affine</i>	✓		✓				
<i>Bossiaea ornata</i>	✓	✓	✓	<i>Stylidium hispidum</i>	✓	✓	✓				
<i>Sphaerolobium medium</i>	✓	✓	✓	<i>Kennedia? prostrata</i> seedling	✓		✓				
<i>Daviesia decurrens</i>	✓	✓	✓	<i>Thysanotus dichotomus</i>	✓	✓	✓				
<i>Daviesia preissii</i>	✓	✓	✓	<i>Thysanotus thysanoides</i>	✓	✓	✓				
<i>Acacia laterifolia</i>	✓	✓	✓	<i>Congostylis setosa</i>	✓	✓	✓				
<i>Lechenaultia biloba</i>	✓	✓	✓	<i>Agrostocrinum scabrum</i>	✓	✓	✓				
<i>Trimalium pedifolium</i> var. <i>resmarinifolium</i>	✓	✓	✓	<i>Paterosoria pygmaea</i>	✓	✓	✓				
<i>Xanthorrhoea gracilis</i>	✓	✓	✓	<i>Charaescilla corymbosa</i>	✓	✓	✓				
<i>Bauhinia grandis</i>	✓		✓								

3. Vessels and Bottlenose Dolphins or Dugongs

- 3.1. Do not approach dolphins or dugongs "head on" under power.
 - 3.2. Do not approach a dolphin or dugong closer than **100 metres** under power.
 - 3.3. To approach a dolphin or dugong a vessel should be manoeuvred so as to be able to drift downwind from a distance of 100 metres. Engines should not be placed into drive or engaged until 100 metres beyond the closest dolphin or dugong.
 - 3.4. Do not "box" dolphins or dugongs in or cut off their paths.
 - 3.5. No more than one vessel should attempt to view a dolphin(s) or dugong(s) at the same time. All other vessels are to maintain a distance of 300 metres and are not to move closer until the contact vessel moves out of the 300 metre contact zone. The approaching and departing vessels are to arrive/ exit from the same general direction to minimise disturbance to the dolphins or dugongs.
 - 3.6. Vessels are to take it in turn, in order of arrival, to enter the contact zone.
 - 3.7. A specific dolphin(s) or dugong(s) is to be interacted with for a maximum of twenty minutes by a vessel, and this can only occur twice in any one day.
 - 3.8. When leaving the vicinity of a dolphin(s) or dugong(s), move off slowly at a maximum speed of 5 knots until at least 300 metres from the closest dolphin or dugong before picking up speed.
 - 3.9. All due care is to be taken to avoid stressing or injuring a dolphin(s) or dugong(s), and contact is to cease immediately at any sign of a dolphin or dugong becoming disturbed or alarmed.
-
-

32 09 77.2
16 01 55.5

PROP=54

6cm

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

Label each plant with plants number, site code, date and plant's name or working name if required

SITE No ARS03

Record on Sheet

Date 17.10.96

• Column 1 plant name

Adjacent → Allocasuarina fraseriana

• Column 2 plant number

• Column 3 flowering time- TICK if species flowering

• Column 4 identification check

NB: ~~Thyrsanthus multiflorus~~

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>E. calophylla</i>	✓			<i>Patersonia pyramidea</i>	✓			<i>Stylidium pulcherrimum</i>	✓		
<i>E. marginata</i>	✓			<i>Scaevola platyphylla</i> ?/phloeoeta	✓			<i>Thysanotus divaricatus</i>	✓		
<i>B. grandis</i>				<i>Tetralochea hirsuta</i>	✓			<i>Amphipogon</i>	✓		
SHRUBS				<i>Tetralochea laevis</i>	✓			<i>Hacmodorum</i> sp.	✓		
<i>Isopogon schizanthoides</i>	✓			<i>Opuntia hirsutula</i>	✓			<i>Agrostocrin scabrum</i>	✓		
<i>Conosyris setosa</i>	✓			<i>Burchardia congesta</i>	✓			<i>Stylidium affine</i>	✓		
MALLEES				<i>Xanthosia hueglii</i>				<i>Hovea choricomala</i>			
<i>Hakea stenocarpa</i>	✓			<i>Acacia barbinervis</i>	✓						
<i>Hibbertia</i> sp. aff. <i>glomerata</i>	✓			GRASSES							
<i>Hibbertia hirsutoides</i>	✓			<i>Xanthorrhoea gracilis</i>	✓						
<i>Bossia ovata</i>	✓			<i>Xanthorrhoea pressii</i>	✓						
SHRUBS											
<i>Grevillea sunadara</i>	✓										
<i>Grevillea willsonii</i>	✓							SEDGES			
<i>Oxyandra rixa</i>	✓							<i>Lomandra pressii</i>	✓		
<i>Oxyandra sp.</i>	✓							<i>Arthropodium</i>			
<i>Xanthorrhoea pressii</i>	✓							<i>Lepidosperma</i> (trap leaved)			
<i>Daviesia pruriens</i>	✓							<i>Tetraria capillaris</i>	✓		
<i>Daviesia decurvens</i>	✓			HERBS				<i>Tetraria laevis</i>	✓		
<i>Banksia grandis</i>	✓			<i>Platostylis barbata</i>				<i>Lomandra caespitosa</i>	✓		
<i>Adiantum barbinervis</i>	✓			<i>Burchardia congesta</i>	✓			<i>Breaza maxima</i>	✓		
<i>Hakea viscoarpha</i>	✓			<i>Atilotus magilezi</i>	✓			<i>Lepidosperma angustatum</i>	✓		
<i>Leucopogon pulcherrimus</i>	✓			<i>Chemocilla corymbosa</i>				<i>Thysanotus spartus</i> (???)			
<i>Lesanthea bilobium</i>				<i>Astralaria</i> sp.	✓			<i>Hard sedge</i> shooting leaf base			
<i>Trimalium angustifolium</i>	✓			<i>Tetralochea hirsuta</i> (glabrous leaves)	✓						
<i>Lab. punctata</i>	✓			<i>Dampiera alata</i>							
<i>Triclinia spathulatum</i>				<i>Tripterocarpus</i> sp.	✓						
<i>Pentapeltis peltagalis</i>	✓			<i>Drosera pallida</i> (?)	✓						
<i>Dampiera linearis</i>				<i>Drosera amplexicaulis</i>							
<i>Styphelia ternata</i>	✓			<i>Hibbertia comulata</i>	✓						
<i>Acacia drummondii</i>	✓			<i>Thysanotus multiflorus</i>	✓						
<i>Gompholobium knightatum</i>	✓			<i>Thelamita crenata</i>							

S. medius?

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

Label each plant with plants number, site code, date and plant's name or working name if required

SITE No ARSC03

Record on Sheet

Date 11.12.96

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

NB: *Thysanota multiflora* at LESMOL local site?

NB: Thyroid ^{multiflow} at LES ^{check} site!

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Annadale Settlers' Common SITE NUMBER ARSC04

- East block

DATE TRIP _____ RECORDERS AM & LM

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location Annadale Settlers' common - East Block
OFF CANNES RD

Geographic Location Latitude 32° 08' 51.4" S Longitude 116° 02' 43.8" E Altitude - 240m
GPS ☒ Accuracy HDXP = 2.3 (4 SATS)
Map Sheet 1KELMSCOTT

Photograph Name Number # 24

Topographic Position (Circle the correct response)
Upland ☒ Lower slope
Upper slope ☒ Valley
Midslope ☒ Washline

2. SITE DATA Circle the correct response

Slope flat ☒ gentle ☒ steep ☒ Aspect N NE E SE S SW W NW

Surface Soil loam Depth to Rock 54r Colour Dk Brown

Exposed Rock type laterite % surface cover >0.5% size range 2cm-30cm

Litter 90% % surface cover Depth (cm) 20-30 cm

Bare Ground >1% % surface cover

Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

BURNT 2 days before rescore

OCT-NOV 1996

∴ No Rescore!

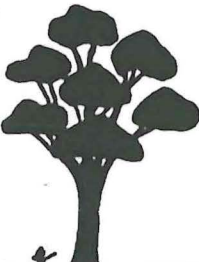
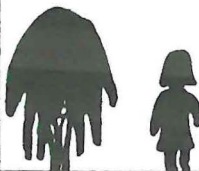
(Adj. property burnt strip upto)

→ photos - site CHBK01 - 23

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Mulr)- use pencil only

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below), and dominant species in each layer.

Cover Class					
2-10%		10-30%		30-70% over 70%	
TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	2-10%	30-70% 10-30%			
DOMINANT SPECIES	<i>E. calophylla</i>	<i>E. calophylla</i> <i>B. grandis</i> <i>E. marginata</i>			
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5-1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10-30%	10-30%		2-10%
DOMINANT SPECIES		<i>Xan. preissii</i>	<i>Pteridium esculorum</i> <i>Macroz. roidlii</i> <i>Xan. preissii</i>		<i>Phy. raly Cinus</i> <i>Bossia ovata</i>
GRASSES		HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)		2-10%			
DOMINANT SPECIES		<i>Scarcuola platyphylla</i>			

4. VEGETATION CONDITION

Comments 1 3½. Dieback killing B. grandis in regions adjacent surrounds. Wood invasion from adjacent pasture. Prob. frequent fire history. Marri slope.

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No	ARSC04
Date	14.10.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. calo.	✓							Oxalis perennans	✓		✓
Euc. mang.	✓							Lomandra preissii (narrowleaf)	✓		✓
Banksia grandis	✓							Lomandra brittenii	✓		✓
								Athyrium capillipes	✓		✓
Leucopogon capitellatus (sterile)	✓		✓								
Hibbertia commutata	✓		✓								
Acacia denticulata	✓		✓								
Bessiaea ornata	✓		✓	GRASSES							
Kennedia coccinea	✓		✓	Tetrarrhena laevis	✓		✓				
Solanum nigrum	✓		✓	Lugala merichowensis?	✓		✓	Lugula meridionalis			
Bassia sp. warana (myid)	✓		✓	Vulpia myuros	✓		✓				
Pteridium esculentum	✓		✓	Briza minor	✓		✓				
Xanth. prossii	✓		✓	Briza maxima	✓		✓	SEDGES			
Macroglossa riedlii	✓		✓								
Solanum nigricans	x		✓								
Phyllanthus calycinus	✓		✓	HERBS							
(ADS) = Grevillea pilulifera	✓			Opercularia apiciflora (?label)	✓		✓				
				Cerastium glomeratum	✓		✓				
				Petrophragma velutina ? Not cent.	✓		✓				
				Hybanthus calycinus seedling?	✓		✓				
				Burchardia congesta	✓		✓				
				Cheilanthes austrotenuifolia	✓		✓				
				(ADS) Thyrsanotus manglesianus	✓		✓				
				Lagenifera hiegelii	✓		✓				
				Sandwichia oleracea	✓		✓				
				Hypochaeris glabra	✓		✓				
				Dampiera linearis	✓		✓				
				Scaevola calyptera	✓		✓				
				Scaevola pilosa	✓		✓				

6. Research Vessels

- 6.1. Where an identified licensed marine mammal research vessel is within **200 metres** of a marine mammal(s), a vessel is not permitted to approach the marine mammal(s) unless permission is granted by the skipper of the research vessel.
- 6.2. Licensed research vessels are identified with signs or flags labelled "research", according to a standard approved by the District Manager, CALM.
- 6.3. Wherever possible and to promote public appreciation of marine mammals, marine mammal interaction activities are to be undertaken on marine mammals separate from those already under observation from research vessels.

7. Aircraft and Marine Mammals

- 7.1. Fixed wing aircraft are not to fly lower than **300 metres**(1,000 feet) or within a horizontal distance of **300 metres** from a whale(s).
- 7.2. Fixed wing aircraft are not to fly lower than **150 metres**(500 feet) or within a horizontal distance of **300 metres** from a dolphin(s) or dugong(s).
- 7.3. Helicopters are **NOT** to be used for marine mammal observation in the Shark Bay Marine Park.

8. Reports and Provision of Information

- 8.1. The licensee will co-operate with the Department of Conservation and Land

No Reserve

Condition: $2\frac{1}{2}$

Adj. *Hovea charizantifolia*

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

Label each plant with plants number, site code, date and plant's name or working name if required

SITE No ARSC 04

Record on Sheet

- Column 1 plant name

- Column 2 plant number

- **Column 3** **flowering time-** TICK if species flowering

- Column 4 identification check

Date 15.10.96

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
E. calophylla				Acacia sp.			✓	unid. dirt weedy			✓
B. grandis				Chilanthus australensis			✓	seedlings			
B. marginata				Lomandra preissii			✓				
				Small Schoenus/Lomandra			✓	Briza minor			
SHRUBS											
MALLEES											
Pteridium esculentum											
Xan. preissii				GRASSES							
Macrocnia reidii				Tetrarhena laevis			✓				
Kennedia coccinea			✓	(dark new growth - sp?)							
SHRUBS				Sonchus oleraceus			✓				
Dampiera linearis			✓	Stipa sp.			✓				
Hibbertia communata			✓	Briza maxima			✓	SEDGES			
Astilbe sp?			✓	unid. dirt grasslike - carpets on			?				
Black berry s?			✓	Lagenophora un-nass-like inflorescence							
Phyllanthus calycinus			✓	huggleri			✓				
unid. dirt - Stachysia??			✓	HERBS							
Scaevola sp small column			✓	Hypochaeris glabra			✓				
Thysanotus? longesicus (ADS)			✓	Arthrochordum capillipes			✓				
Cephaelis pilulifera (ADS)				Oreocaularia hispida?			✓				
Scaevola phaeophylla				Oralis sp			✓				
callipera				Casia? Burchardia?			✓				
				↳ pale Burchardia							
				Doagata?							

25. scapula

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Armadale Settlers Common SITE NUMBER ARSC05

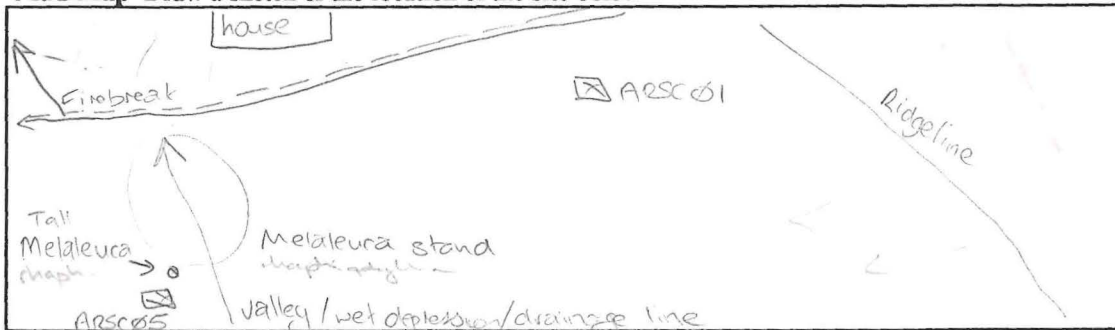
DATE TRIP 15.10.96 RECORDERS AM + LM

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below



Road Location - Northern Firebreak ARSC - West park

off cambridge Rd

Geographic Location Latitude 32° 09' 11.7 S Longitude 116° 02' 11.9 E Altitude 200m
GPS ☒ Accuracy PDOP = 4.5 (6 satellites)
Map Sheet 1E

Photograph Name _____ Number # 25

Topographic Position (Circle the correct response)
Upland _____
Upper slope _____
Midslope _____
Lower slope _____
Valley _____
Washline _____
Ephemeral creek _____

2. SITE DATA Circle the correct response

Slope flat gentle steep _____ Aspect N NE E SE S SW W NW

Surface Soil gritty clay Depth to Rock > 1m Colour Orange-red

Exposed Rock type _____ % surface cover _____ size range _____

Litter 20 % surface cover _____ Depth (cm) 5cm

Bare Ground 15 % surface cover _____

Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64 Nedlands WA 6008

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Mulr)- use pencil only

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.

Cover Class 2-10% 10-30% 30 - 70% over 70%

TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		2-10%	2-10%		
DOMINANT SPECIES		<i>E. wandoo</i> <i>E. natophylla</i> <i>Metelasma megastoma</i>	<i>E. cylliphylla</i> (seedlings)		

SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)				10-30%	30-70%
DOMINANT SPECIES		<i>H. undulata</i> = BURNED + Lox		<i>Xon preisii</i> <i>Aca pulchella</i> <i>Hibb. hypericoides</i>	<i>Aca pulchella</i> <i>Hypocorymbus angustifolius</i> <i>Dry. nivea</i>

GRASSES		HERBS		SEDGES	
	over 0.5m		over 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30%	10-30%			2-10%
DOMINANT SPECIES	<i>Biza maxima</i> <i>Aiza carophylla</i> <i>Danthoria</i>	<i>Patersonia occidentalis</i> <i>Senecio</i> sp. <i>Tribonanthes</i> <i>Stylidium bulbiferum</i>		<i>Homodown</i> // <i>Tribonanthes</i>	<i>Maximeliana</i> - sp. <i>Lepidosperma</i> - <i>angustatum</i>

4. VEGETATION CONDITION

Comments

3 1/2 / 14. Recent burn has brought in *Biza maxima* & *Senecio* sp!

History of grazing?

Rich herb understory in drainage region & small

Emergent Tau (>2m) *Xon. preisii*

3

Rich Herb layer!
Fleshy hollow single
- creole!
leaf!

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No ARSCO5
Date 14.10.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Euc. wandoo</i>				<i>Patersonia occidentalis</i>				<i>Wahlenbergia preissii</i>			
<i>Euc. calophylla</i>				<i>Hypochaeris glabra</i>				<i>Stylidium bulbiferum</i> (strict)			
<i>Adalcania thaphiophylla</i>				<i>Sonchus oleraceus</i>				<i>Stylidium burtonianum</i>			
<i>Euc. rudis</i>				<i>Cassipoua porifera</i>				<i>Levenhookia pusilla</i>			
SHRUBS				<i>Cassipoua racemosa</i>				<i>Caladenia flava</i>			
<i>Baeckea camphorosmae</i>				<i>Orobancha minor</i>				<i>Trifolium campestre</i> (sterile)			
<i>Dry lindeyana lindleyana</i>				<i>Lomandra micrantha</i>				<i>Trifolium scabrum</i> (sterile)			
<i>Hypocalymma angustifolium</i>				<i>Scaevola pilosa</i>				<i>Trifolium sp. dubium</i>			
<i>Astragalus pallidum</i> (seedling)				GRASSES				<i>Lotus sp. angustissimus</i>			
<i>Leucopogon ? patetellus</i> (seedling)				<i>Briza minor</i>				<i>Chaenactis rumbosa</i>			
<i>Hakea undulata</i> (seedling)				<i>Neurachne ? alopecuroides</i> (sterile)?				<i>Parentucellia viscosa</i>			
<i>Grevillea pilulifera</i>				<i>Tetrasphaera laevis</i> ?				<i>Senecio diaschides</i>			
<i>Acacia pulchella pulchella</i>				<i>Avena barbata</i>				<i>Romulea rosea</i>			
<i>Gompholobium marginatum</i>				<i>Danthonia setacea</i>				<i>Dampiera linearis</i>			
<i>Pimelea ciliata</i> (sterile)				<i>Aira caryophylla</i>				<i>Scaevola calliptera</i>			
<i>Xanthorrhoea preissii</i>				<i>Vulpia muricoides</i> muricoides				<i>Conosperma ciliatum</i>			
<i>Acacia lasiocarpa</i>				<i>Briza maxima</i>				<i>Haemodorum simplex</i>			
<i>Xanthorrhoea preissii</i>				<i>Microlaena stipoides</i>				<i>Bartsia trixago</i>			
<i>Hakea dissocarpa</i>				HERBS				<i>Tolpis barbata</i>			
<i>Hibbertia hypericoides</i>				<i>Hydrocotyle calicarpa</i>				<i>Caladenia flava flava</i>			
<i>Hibbertia commutata</i>				<i>Homalosarpum homallosciades</i>				<i>Centaurium erythraea</i>			
<i>Hyp</i>				<i>Centrolepis aristata</i>				<i>Parentucellia latifolia</i>			
<i>Lechenautia biloba</i> seedlings				<i>Trachymene pilosa</i>				<i>Orobancha minor</i>			
				<i>Xanthosia candida</i>				SEDGES			
<i>Lomandra sp. - hemiphradita</i> ?				<i>Anagallis arvensis</i>				<i>Juncus capitatus</i>			
<i>Leucopogon gracillimus</i>								<i>Isolepis marginata</i>			
				<i>Philydrella pygmaea pygmaea</i>				<i>Cyperus tennellus</i>			
				<i>Xanthosia huegelii</i>				<i>Tribonanthes sp. (sterile)</i>			
				<i>Burchardia congesta</i>				<i>Chorizanthe enodis</i>			
				<i>Cerastium glomeratum</i>				<i>Schoenus odontocarpus</i>			
				<i>Centaurium erythraea</i>				<i>Juncus bufonius</i>			
				<i>Cicendia filiformis</i>				<i>Cy Tetraena octandra</i>			

Centaurium erythraea ?

S. odontocarpus - vs. *S. sculptus*. x → check

Parentucellia viscosa is *latifolia*.

(1.1)

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No PAROS ARSCOS

Date 15.10.96

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>E. wandoo</i>	✓			<i>Chaemosila corumbosa</i>				<i>Levenhookia</i> sp			
<i>E. calophylla</i>	✓			<i>Burchardiz</i> sp - (no flowers) ↗				<i>Centrolepis aristata</i>			
<i>Metaleuca strobilacea</i>				<i>Caesia micrantha</i> ↘				<i>Wahlenbergia</i> sp			
<i>E. rudis</i> <i>preissiana</i>				<i>Pimelea silvestris</i>				Small annual <i>Schoenus</i> - as before			
				Hakea <i>Hakea</i> undulata seedling				<i>Hypochaeris glabra</i>	✓		
SHRUBS				<i>undulata</i>				<i>Trifolium / Medicago</i> ?	✓		
MALLEES				<i>Caladenia flava</i>				<i>Trachymene pteris</i>	✓		
<i>Aca. pulchella</i>	✓							<i>Anagallis arvensis</i>	✓		
<i>Baeckea camphorosmae</i>	✓			GRASSES				<i>Cassutha</i> sp.	✓		
<i>Dry. nivea</i>	✓			<i>Briza maxima</i>	✓			<i>Tetraria octandra</i>			
<i>Paterersonia occidentalis</i>	✓			<i>Briza minor</i>	✓			<i>Hydrocotyle</i> sp			
<i>Hakea undulata</i>	✓			<i>Aca. carodhyllae</i>	✓			<i>Sonchus oleraceus</i> ^{trifolius}	✓		
SHRUBS				<i>C. Unid. grass</i> sp				Tufted <i>Schoenus</i> - Small tufted <i>Schoenus</i> / <i>Lomandra</i>			
<i>Senecio</i> sp.	✓			<i>Danthonia</i> sp. 1.	✓			SEDGES			
<i>Xanthorrhoea preissii</i>	✓			<i>Danthonia</i> sp. 2.	✓			<i>Lomandra</i> sp. 1. (Curly leaved)			
<i>Hakea lissocarpha</i>	✓			<i>Abenacrophallus</i> <i>Aca. calophylla</i>	✓			<i>Lepidosperma angustatum</i>	✓		
<i>Acacia pulchella</i>	✓			<i>Scroph.</i> <i>Scroph.</i> - small <i>scropholoides</i>	✓			<i>Lomandra preissii</i>	?		
<i>Hibbertia hypericoides</i>	✓			<i>Homa homalocarpus</i>				<i>Flechy Strap leaf Schoenus</i>	??		
<i>Hibb. commutata</i>	✓			HERBS				<i>Small hirsute Mangrove-like dicot</i> <i>Anagallis</i>			
<i>Gravillea pilulifera</i> seedling				<i>Stylidium bulbiferum</i>	✓			<i>Centrolepis aristata</i>			
<i>Hypocalymma angustifolium</i>	✓			<i>Stylidium bunnianum</i>				Small annual <i>Schoenus</i> sp.			
<i>Dampiera linearis</i>								<i>Brizula aphyane</i> - X			
<i>Xanthosia candida</i>	✓			Not collected > <i>Microtis</i> = <i>Oxalidis</i> X				Small annual <i>Schoenus</i> sp?			
<i>Tetraloma lavis</i> (hirsute)				<i>Oxalis</i> <i>las</i>				<i>Neuradine alloparacoides</i>			
<i>Elaeagnus marginata</i>	✓			photographed				<i>Pentstemon</i> <i>Pentstemon</i>			
<i>Loeselia biloba</i> ? (seedling)				<i>Xanthosia hugglii</i>				<i>Isolepis</i> sp.			
<i>Thymelaea</i> <i>Thymelaea</i>				Small annual <i>stipa</i> (<i>Volpis</i>)				<i>Centrolepis</i> sp. - small <i>centrolepis</i> - maybe <i>aristata</i>			
<i>Romulea rosea</i>				Fine <i>Oxalis</i> - maybe <i>medicago</i> / <i>Trifolium</i>				<i>Phyllocladella</i> - 10s can <i>prostrata</i>			
<i>Hairy Stipa</i>				<i>Lots of Leek Orchids</i> <i>Trifolium</i>				<i>Hieracium</i> sp. - single <i>ray leaf</i>			
<i>Paterersonia</i> sp. (seedling)				<i>(Haemodorum simple)</i>							
<i>Astrolooma</i> sp. (seedling)											
<i>Prostanthera</i>											
<i>Wahlenbergia</i> sp 2 / <i>Levenhookia</i>				<i>Leek Orchids</i> / or <i>Trifolium</i>							

Come sperma (leaf)

hollow stems

Used to id. in mouth.

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No ARSC05

Date 11.10.96

Perenn.

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				Comesperma vaginatum				Orobanchae minor			
				No flowering				Hairy-leaved grass			
				Tribonanthes				Lepidosperma gracilis			
								Pink flw. opp leaves			
MALLEES								5-leaf pea lvs			
				GRASSES				Romulea rosea			
								Wid. asteraceae			
SHRUBS								Archeia brizolia			
								Isidopsis marginata			
								SEDGES			
								Stipa → (Sedge)			
								W. lvs. Cyathochaeta			
								(Stipe Mesonotum)			
								w/der bracts			
				HERBS				Tribonanthes/Haemodorum?			
								→ prob Tribonanthes			
								yellow, tall sedge			
								Large flat weed - Archeia?			
								Hyp. glabra			
								Medicago			
								Avena sp. - fava			

REPORTS: ARMADALE Bungendore Park.

581-9(9411) BW.

Author: Jeffery Lewis

→ Check methodology (comp (compatible?)) - NO

M80

look up on website

www.unsw.edu.au/cyllene/bfizard
http://

Kim Sarti

1st page 1st 2 pages

FAMILY

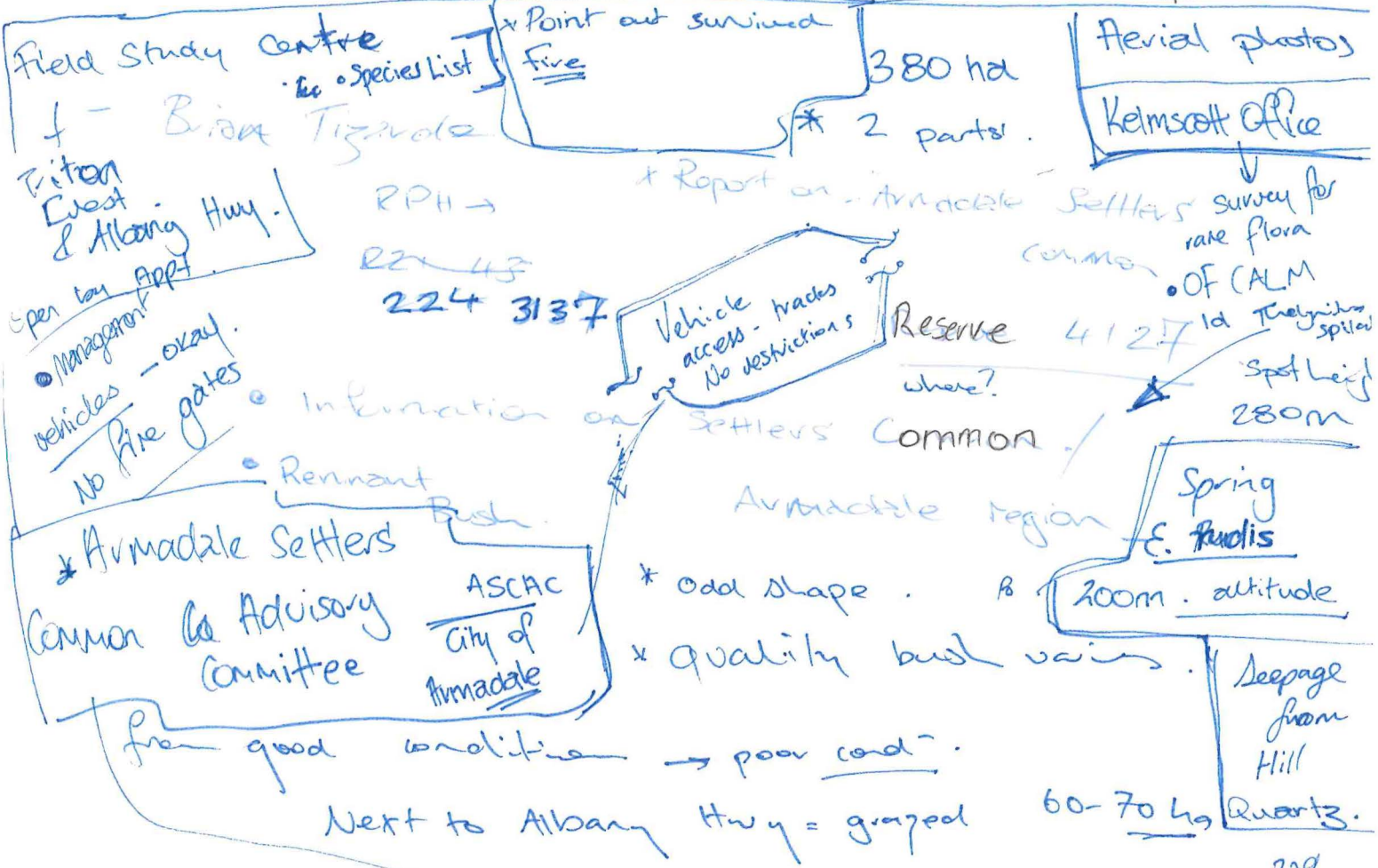
clear

contact for finding report

Report → add Management plan.

* FRIENDS OF BUNGENDORE PARK

Travel Allowance



- * No quadrat survey
- * Stock take species inventory
- * Fire 2-3 years!

- * cross scarp face
- + Patches Wandoo
- + Jarrah / mallee
- * Spring at interface bush / pasture
- weedy
- Border of
- 2 pastured bush
- In conj. CALM + DEP +
- Funded by
- Heritage Commission

Burn
Escaped major fire
Mosaic

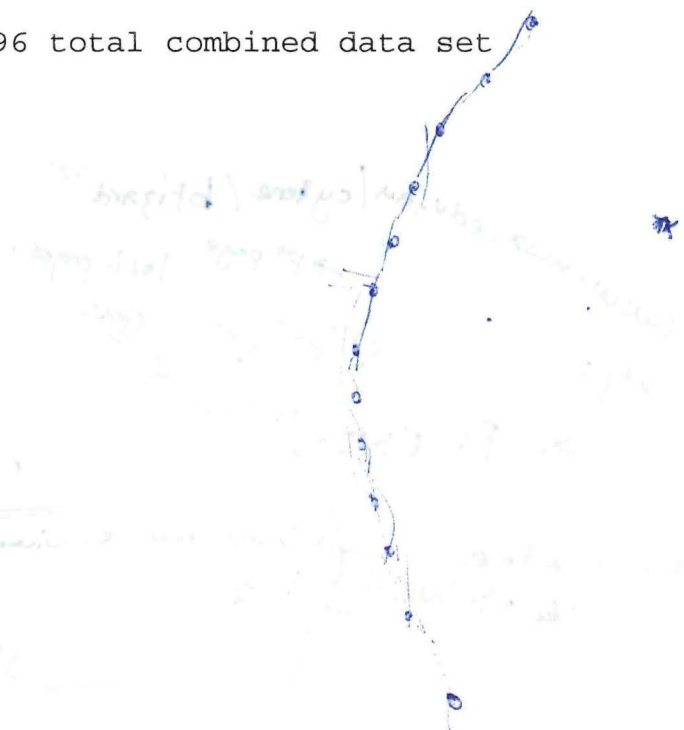
Armadale Councils
Nth 2
Armadale
6/12

7/16/96 16:24:20.94 tway jun 96 total combined data set

AhhhXT	CMHxlr
UyyyyW	7OAbco
SmmuI	1DReww
TuuurN	-OREle
Bsssi-	1-Yl00
-00001	3-0b1
325641	63

ACAPUL
EUCMAR
AIRCAR
HOMHOM
PHYCAL
TRAPIL
EUCCAL

*	**
*	**
*	*
*	*
*	*
*	*



Dept CALM
PO Box 51
Wanneroo

405 5153

17th January 1997

Brett Tizard
Armadale Settler's Common Advisory Committee
c/o Armadale Settler's Common Field Study Centre
Locked Bag No. 2
Armadale W.A. 6112

Dear Brett,

Thankyou for allowing me access to the Armadale Settlers Common to place my quadrats for the flora survey. Five of the 120 plots are now situated in the Common. The location of these I have marked on the accompanying photocopy of an aerial photograph of the region. Data from these plots will be entered into the larger analysis on our flora survey of the Darling Scarp.

It is worthy to mention that site ARSC05 was burnt on December 11th 1996 in what appeared to be a control burn from the adjacent property. Dieback may also be present some 100 south of this site, as suggested by a senescing stand of *Banksia grandis*. On the same day in the western part of the Common, some Afghan hounds were observed to be roaming without any sign of an owner. Additionally, as I mentioned previously to you on the phone, a trail-bike rider from an adjacent property has been observed riding on the firebreaks (seen on 14/10/96).

As of yet, I haven't compiled a species list since material is awaiting identification at the Herbarium. When I have done so, I will forward a species list to you. Because of the limited number of plots, this will not represent a comprehensive flora list but will give some idea of the floristic communities of the Darling Scarp that are present in the Armadale Settler's Common.

If you have any queries, please contact me.

Regards

Adrienne Markey