

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Ellis Brook ^{Jawah & East} SITE NUMBER ELBK 01

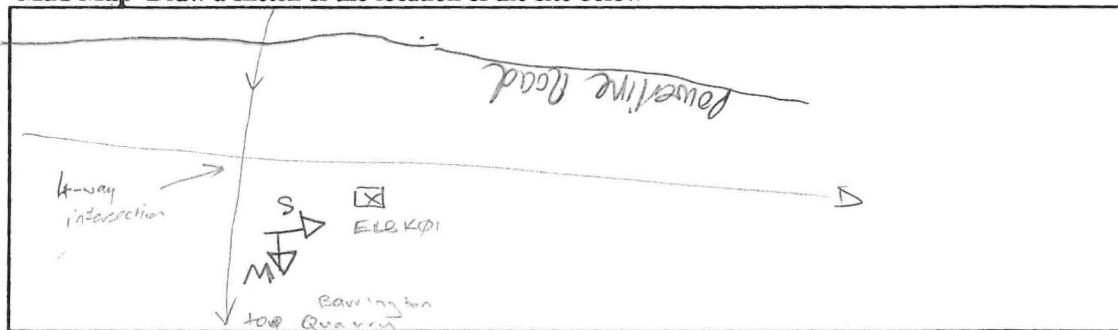
DATE TRIP 9/10/96 RECORDERS MC & AM

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Aerial photo
5127 4.1.91
910400

Road Location

Geographic Location Latitude 32 04 48.0 S Longitude 116 02 34.7 E Altitude 260m
GPS ☒ Accuracy HDOP 3-3
Map Sheet 11ELMSCOTT

Photograph Name _____ Number Roll #3 NH 2

Topographic Position (Circle the correct response)
Upland 6 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 gravelly loam Depth to Rock 0-30cm Colour yellow-brown

Exposed Rock type latvite % surface cover _____ size range 1cm - 60cm

Litter 20 % surface cover _____ Depth (cm) 5-10cm

Bare Ground 40 % surface cover _____

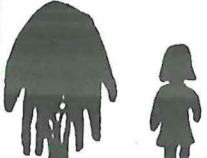
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

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%
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TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM	 20-15m				
COVER CLASS (%)	10-30%	10-30%	10-30%	10-30%	10-30%
DOMINANT SPECIES	<i>E. marginata</i>	<i>E. marginata</i>	<i>E. marginata</i>	<i>E. marginata</i>	<i>E. marginata</i>
javan forest. Coverage down due to fire.					
30m					
10m					

SHRUBS			SHRUBS		
	over 2m	2m-1.5m	1.5-1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30%	10-30%	10-30%	10-30%	10-30%
DOMINANT SPECIES			<i>Iso. spherocephala</i>	<i>H. lisso</i>	<i>Acacia woodleaf</i>
10-30					
770					
30-70%					
2m					
1m					

GRASSES		HERBS		SEDGES	
	over 0.5m	under 0.5m	over 0.5m	under 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10%	2-10%	2-10%	2-10%	2-10%
DOMINANT SPECIES		<i>Trypetorococcus sp.</i>	<i>Tetaria repillaris</i>	<i>Tetaria octandra</i>	
2-10%					
1m					

4. VEGETATION CONDITION

Comments

Javan forest. Burnt 1993. V. hot fire
Good regrowth. Rich shrubs u/stones

NR: *Patersonia rubris* summer

25

8

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Elis Brook Falls ^{above} SITE NUMBER ELBIL02

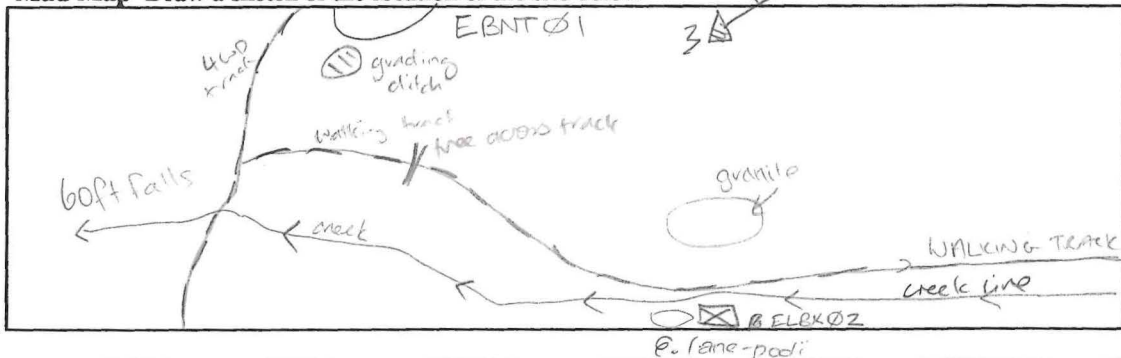
DATE TRIP 9/10/96 RECORDERS AM ML

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

Geographic Location Latitude 32 04 04.9 S Longitude 116 02 29.9 E Altitude 200 m
GPS ☒ Accuracy PDOP = 3.5
Map Sheet MUNDARING 5 sats

Photograph Name _____ Number #4 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 2 Aspect N NE E SE S SW W NW

Surface Soil gritty silt downslope from granite Depth to Rock > 1m Colour light-red brown (coffee)

Exposed Rock type granite % surface cover 1% size range 1-2 cm

Litter 50 % surface cover 5-10cm deposits from decomposing slope (1 layer)

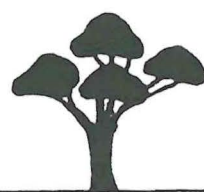
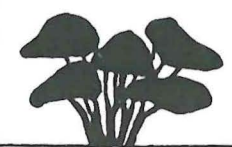
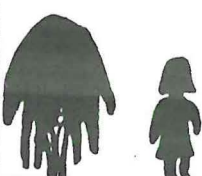
Bare Ground 15 % surface cover

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 (%)		10-30%	10-30% (resprouts)		
DOMINANT SPECIES	<i>E. calophylla</i>	<i>E. calophylla</i> <i>E. lane-poolei</i>	<i>E. calophylla</i>		
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			60-90% 2-10% 2-10%	>70%	30-70%
DOMINANT SPECIES			<i>Xan. proissii</i>	<i>Hibb. hypoleioides</i> <i>Halim. undulata</i> <i>Acacia pulchella</i>	<i>(Cassipou. racemosa?)</i> <i>Proy. niveda</i> <i>Halim. tri. Arac. pulchella</i>
GRASSES		HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)		10-30% 30-70%	30-70%		
DOMINANT SPECIES		<i>Dorstenia aiala</i> <i>Mixra herb</i> <i>Cladonia silvestris</i> <i>Haemodorum</i>	<i>Tetraneura ciliolata</i> <i>Tetraneura Mesomelanois tetraneura</i> <i>Leptocarpus sp.</i> <i>Hypoleioides</i>		

4. VEGETATION CONDITION

Comments

Burnt

1994.

4

x Mauri - wandoo, open woodland with *E. lane-poolii* by creekline. thick granitic heath invading from upslope: decomposing slope products, silty soils

Low woods at A

2.5

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No ELBKØ1

Date Dets from

9.12.96

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
<i>Euc. mang.</i>	✓	-	✓	<i>Grevillea willsonii</i>	✓	-	✓	<i>Drosera sp.</i>	✓	✓	✓
<i>Euc. calophylla</i>	✓	-	✓	<i>Lechenanthea biloba</i>	✓	-	✓	<i>Billardiera sp.</i>	✓	✓	✓
<i>Macaranga medleyi</i>	✓	-	✓	<i>Conostylis setosa</i>	✓	-	✓	<i>Xanthoria ciliatum</i>	✓	✓	✓
<i>Boronia ovata</i>	✓	-	✓	<i>Hibb. hypericoides</i>	✓	-	✓	<i>Scaevola platyphylla</i>	✓	✓	✓
<i>Hibb. ang.</i> <i>Hakea aplexicaulis</i>	✓	-	✓	<i>Isopogon sphaerocephalus</i>	✓	-	✓	<i>Paterosia rudis</i>	✓	✓	✓
<i>Hakea cyclocarpa</i>	✓	-	✓	<i>Hypochaeris robusta</i>	✓	-	✓	<i>Triptococcus brunneus</i>	✓	✓	✓
SHRUBS				<i>Hakea lasiocarpa</i>	✓	-	✓	<i>Platysace compressa</i>	✓	✓	✓
<i>Dryandra lindleyana</i>	✓	✓	✓	<i>Xanthorrhoea gracilis</i>	✓	-	✓	<i>Leonardia spartea</i>	✓	✓	✓
<i>Gompholobium knightianum</i>	✓	✓	✓	GRASSES				<i>ADS: Scaevola platyphylla</i>	✓	✓	✓
<i>Gompholobium preissii</i>	✓	✓	✓	<i>Stipa compressa</i>	✓	✓	✓	<i>Leonardia cespitosa</i>	✓	✓	✓
<i>Paterosia babionoides</i>	✓	✓	✓	<i>Amphipogon turbinatus</i>	✓	✓	✓	<i>Tetralinea setigera</i>	✓	✓	✓
<i>Scaevola calliptera</i>	✓	✓	✓	<i>Amphipogon debilis</i>	✓	✓	✓	<i>Dampiera linearis</i>	✓	✓	✓
<i>Pimelea ciliata</i>	✓	✓	✓					<i>Paterosia occidentalis</i>	✓	✓	✓
<i>Laportea punctata</i>	✓	✓	✓					SEDGES (umbrosa?)			
<i>Allocasuarina humilis</i>	✓	✓	✓					<i>Tetralinea capillaris</i>	✓	✓	✓
<i>Grevillea synaphea</i>	✓	✓	✓					<i>Mesomelaena gracilis</i>	✓	✓	✓
<i>Acacia rubiginosa</i>	✓	✓	✓					<i>Cyathochaeta acutata</i>	✓	✓	✓
<i>Drosera decurva</i>	✓	✓	✓					<i>Loxocarya fusciculata</i>	✓	✓	✓
<i>Petrophile striata</i>	✓	✓	✓	HERBS							
<i>Hovea chorizandra</i>	✓	✓	✓	<i>Pterochaeta paniculatum</i>	✓	✓	✓				
<i>Acacia dougata</i>	✓	✓	✓	<i>Centrolepis aristata</i>	✓	✓	✓				
<i>Grevillea quercifolia</i>	✓	✓	✓	<i>Centrolepis drummondiana</i>	✓	✓	✓				
<i>Acacia lateritica</i>	✓	✓	✓	<i>Opercularia echinocephala</i>	✓	✓	✓	<i>Leonardia nigricans</i>	✓	✓	✓
<i>Drosera thymifolia</i>	✓	✓	✓	<i>Hydrocotyle callicarpa</i>	✓	✓	✓	<i>Passiflora paniculata</i>	✓	✓	✓
<i>Hibbertia acerosa</i>	✓	✓	✓	<i>Levenhookia pusilla</i>	✓	✓	✓	<i>Haemodorum laxum</i>	✓	✓	✓
<i>Astroloma pulchrum</i>	✓	✓	✓	<i>Xanthosia huegelii</i>	✓	✓	✓	<i>Leonardia preissii</i> (navas)	✓	✓	✓
<i>Leucopogon capitellatus</i>	✓	✓	✓	<i>Hybanthus calycinus</i> (serie) / floribund	✓	✓	✓	<i>Pentapetis peltigera</i>	✓	✓	✓
<i>Hibbertia connata</i>	✓	✓	✓	<i>Stylidium brunonianum</i>	✓	✓	✓	<i>Stylidium tenuiflorum</i>	✓	✓	✓
<i>Boronia ornata</i>	✓	✓	✓	<i>Stylidium hispidum</i>	✓	✓	✓	<i>Adenanthos barbiger</i>	✓	✓	✓
<i>Gompholobium polymorphum</i>	✓	✓	✓					<i>Burchardia longata</i>	✓	✓	✓
<i>Hibbertia huegelii</i>	✓	✓	✓	<i>Thysanotus myrsoides</i>	✓	✓	✓	<i>Drosera erythrorhiza</i>	✓	✓	✓
<i>Hakea undulata</i>	✓	-	✓	<i>Thysanotus tenellus</i>	✓	✓	✓	<i>Stylidium latifolium</i>	✓	✓	✓

Eriostemon spicatum

Conostylis setosa

Scaevola calliptera

Chamaecilla cynabosa

Leonardia hemisphaerica 10.12.96

Leonardia micrantha 9.10.96

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 ELBK01

Record on Sheet

Date 9.10.96

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

Daves = decussatus

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>E. marginata</i>	✓			<i>Bororia ovata</i>	✓			<i>Hydrocotyle</i> sp.			
<i>E. calophylla</i>	✓			<i>Tripterococcus</i> sp. <i>brunonis</i>	✓	1/2		<i>Levenhookia</i> sp.			
				<i>Stylidium piluliferum</i>	✓	1/2		<i>Macrozamia reidii</i>	✓		
<i>H. amplexicaulis</i>	✓			<i>Opsercularia hispidula</i>				<i>Waitzia paniculatum</i>	✓		
<i>H. auctocarpa</i>	✓			<i>Stylidium brunneum</i>		1/2		<i>Eriostemon spicatum</i>	✓		
<i>H. ex undulata</i>	✓			<i>Scaevola</i> sp. (NF) seedlings	✓	1/2		<i>Centropogon drummondii</i>			
MALLEES				<i>Burchardia umbellata congesta</i>	✓	1/2		<i>Centropogon aristata</i>			
<i>Arct. Wilsonii</i>	✓			<i>Scaevola platyphylla?</i>	✓	1/2		<i>Chaenactis corymbosa</i>	✓		
<i>Lech. biloba</i>	✓			GRASSES				<i>Pterisanthus babingtonii</i>	✓		
<i>Conostylis serotina</i>	✓			<i>Pterisanthus (NF)</i>	✓	1/2		<i>Chyathochaete ovata</i>	✓		
<i>Hibb. hypericoides</i>	✓			<i>Drosera stolonifera?</i>		1/2		<i>Allocasuarina fraseriana</i>	✓		
SHRUBS				<i>Proserpinaca angustifolia</i>		1/2		<i>Hibbertia commutata</i>	✓		
<i>Isopogon sphaerophyllus</i>	✓			<i>Astroloma</i> sp. (pallidum?)		1/2		<i>Tetraria capillaris</i>	✓		
<i>Hypox. robustum</i>	✓			<i>Haemodorum chap. leaf</i>	✓	1/2		SEDGES			
<i>Bororia ovata</i>	✓	1/2		(with petiole)				<i>Lomandra heterophylla</i>			
<i>Pteropile ovata</i>	✓	1/2		<i>Unid. resprout - flowerings?</i>				<i>Loxocarya fasciculata</i>	✓		
<i>Arg. nivenii</i>	✓	1/2		<i>Thelymitra blue</i> <i>laurea</i>				<i>Lepidosperma angustatum</i>	✓		
<i>Acacia drummondii</i>	✓	1/2		<i>Grevillea syndneya</i>	✓			<i>Mesomelasma ? gracile</i>	✓		
<i>Damp. linearis</i>	✓	1/2		HERBS				<i>Lomandra preissii</i> (staked)	✓		
<i>H. Hibb. asclepias</i>	✓	1/2		<i>Leucopogon</i> sp. (F)		1/2					
<i>H. lissocarpa</i>	✓			<i>Astroloma</i> sp. (NF)		1/2		<i>Amphioxys turbinata</i>			
<i>Xan. gracilis</i>	✓			<i>Davea decurrens</i>	✓	1/2					
<i>Labichea punctata</i>		1/2		<i>Xanth. huegii</i>	✓	1/2		<i>Lomandra</i> sp 3 (stake)	✓		
<i>Tet. hirsuta</i>		1/2		<i>Pterisanthus babingtonii</i>	✓						
<i>Petalostemum pettigera</i>	✓			<i>Xan. huegii</i>	✓			(<i>Thysanotus</i> - one sterile leaf)			
<i>Acacia</i> sp. (broodphylls)		1/2		<i>Grevillea quercifolia</i>	✓						
<i>Howea charitophylla</i>	✓	1/2		<i>Chaenactis corymbosa</i>				<i>Platysace anceps</i>	✓		
<i>Grevillea angustifolia</i>	✓	1/2		<i>Pimelea ? subultralis</i>				<i>Lomandra spartea</i> (sterile bases)	✓		
<i>Styphelia tenuifolia</i>	✓			<i>subultralis</i>							
<i>Adonathos barbigerus</i>	✓			<i>Tricladia spatulata</i>							
<i>Gomph. knightianum</i>	✓			<i>Lomandra caespitosa</i>	✓	1/2					
<i>Gomph. repens</i>	✓			<i>Hibb. asclepias</i>	✓	1/2					

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 ELBK 81

Record on Sheet

Date 10.12.96

Reserve

- 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>Burchardia congesta</i>			✓
								<i>Daveia rhombifolia</i>			✓
								<i>Platysaceae</i>			✓
								<i>Acacia sp. nervosa?</i>			✓
								undulate leaves			
								<i>Daveia decurrens</i>			✓
MALLEES								<i>Gomph. knightianum</i>			✓
								<i>Scaevola sp.</i>			✓
				GRASSES				<i>Acacia barbinervis</i>			✓
								<i>No catgr. plant</i>			✓
								<i>Cassipouia sp.</i>			✓
SHRUBS								<i>Billardiera sp. (NFI)</i>			
								<i>Conosyris setosa</i>			
								SEDGES			
								<i>Hibbertia sp. hugelii</i>			✓
								(5 petals, 3 corolla, 13 stamens)			
								daisy-like anthers at apical end			
				HERBS				<i>Gomph. tomentosus?</i>			✓
								<i>Gomph. polyneuron</i>			✓
								yellow flowers			
								<i>T. filicoides</i> leaves			✓
								<i>Paterosia rudis</i>			✓
								<i>Donardra preissii</i>			✓
								Didn't see <i>Conocarpus</i> in Macore			
								<i>Opuntia echino.</i>			✓

ADS: Ellisbrook Valley - 9.10.96 *Pentstemon occidentalis* (purple coral) - roll B.R. in valley ✓
110.40 *Juncus rostratoides* - Ellis Creekline - on walking track ✓
Valley

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No ELBK02

Date DetS. form

9.10.96

+ 10.12.96 (R)

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>Eucalyptus lane-poolei</i> ✓		✓	✓					<i>Stylidium calcaratum</i> ✓	✓		✓
<i>Euc. calophylla</i> ✓			✓					<i>Lewinbickia pusilla</i> ✓	✓		✓
SHRUBS								<i>Tradymene pilosa</i> ✓	✓		✓
<i>Xan. acanthostachya</i> ✓			✓					<i>Sonchus oleraceus</i> ✓	✓		✓
<i>Halca undulata</i> ✓			✓					<i>Goodenia aff. micrantha</i> ✓	✓		✓
<i>Eriostema spicatum</i> ✓			✓					<i>Stylidium aff. amicum</i> ✓	✓		✓
<i>Astroloma edithae</i> ✓			✓					<i>Hypochaeris glabra</i> ✓	✓		✓
<i>Agonis grandiflora</i> ✓	✓	✓	✓					<i>Styl. humeratum</i> - large sterile ✓	✓		✓
<i>Calothamnus quadrifidus</i> ✓	✓	✓	✓	GRASSES				<i>Haemodorum laxum</i> ✓	✓		✓
<i>Trymalium ledifolium</i> var ✓			✓	<i>Tetrahena laevis</i> ✓	✓	✓	✓	<i>Dampiera alata</i> ✓	✓		✓
<i>rosmarinifolium</i> ✓			✓	<i>Stipa pycnostachya</i> ✓		✓	✓	<i>Drosera menziesii</i> ✓	✓		✓
<i>Hovea hisperma</i> ✓	✓		✓	<i>Stipa</i> sp.		✓					
<i>Acacia alata</i> ✓			✓					<i>Mesomelaena tetragona</i> ✓			✓
<i>Monasia glutinosa</i> ✓			✓					SEDGES			
<i>Gonolobium polyanthum</i> ✓	✓		✓					<i>Hypolaena exsultans</i> ✓	✓	✓	✓
<i>Acacia pulchella pulchella</i> ✓			✓					<i>Lepidosperma</i> - sterile. angustatum? ✓	✓		✓
<i>Pimelia</i> sp. ✓			✓					<i>Tetrahena capillaris</i> ✓	✓		✓
<i>Astroloma foliosum</i> ✓	✓	✓	✓					<i>Tetrahena obtusa</i> ✓	✓		✓
<i>Dry. lindleyana lindleyana</i> ✓			✓	HERBS				<i>Neschoenus</i> sp. ✓			✓
<i>Gonoph. marginatum</i> ✓			✓	<i>Opercularia edinocephala</i> ✓	✓	✓	✓	<i>Loxocarya fasciculata</i> ✓	✓		✓
<i>Nuytsia fibrihunda</i> ✓			✓	<i>Haemodorum discolor</i> ✓		✓					
<i>Hibb. hypericoides</i> ✓			✓	<i>Xanthoria luegelii</i> ✓	✓	✓	✓	<i>Stylidium bulbiferum</i> - unref ✓			✓
<i>Kingia australis</i> ✓			✓	<i>Goodenia caerulea</i> ✓	✓	✓	✓	<i>Drosera pallida</i> ✓			✓
<i>Halca trifurcata</i> ✓			✓	<i>Monnaescilla corymbosa</i> ✓		✓	✓	<i>Burchardia congesta</i> ✓			✓
<i>Chorizema dicksonii</i> ✓			✓	<i>Stylidium humeratum</i> ✓		✓	✓				
<i>Calothamnus torulosus</i> ✓	✓		✓	<i>Cassynia vacinosa</i> ✓	✓	✓	✓	<i>Laxmannia squarrosa</i> ✓			✓
<i>Acacia obovata</i> ✓			✓	<i>Cassynia glabella</i> ✓		✓	✓				
<i>Dawsonia citioides</i> ✓			✓	<i>Goodenia fasciculata</i> ✓		✓	✓	<i>Boronia tenuis</i> ✓			✓
<i>Baeckea canthoesmae</i> ✓			✓	<i>Kennedia cavinata</i> ✓	✓	✓	✓	<i>Thlaspi mita cinnita</i> ✓			✓
<i>Labeoidea punctata</i> ✓			✓	<i>Scaevola glandulifera</i> ✓		✓	✓	<i>Horollocarpium horollosciada</i> ✓			✓
				<i>Thysanotus multiflorus</i> ✓		✓	✓	<i>Pitheocarpus? pulchella</i> ✓			✓
				<i>Hydrocotyle calycarpa</i> ✓	✓		✓				

MS-2a

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

NB:
Kennedy post
etc ELBLO'
(the reason)

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. leopoldii	✓		/	Eucard - wind	✓			Trachymene plicata			
Euc. calophylla	✓							Stylidium americanum	✓		
Kingia aust.								Chasm. cumbosa	✓		
								wind Rotaceae (?) Boronia			
								* Xanth. lucasii	✓		
MALLEES								Thelymitra ? crinita			
								Horia Homosciades			
								Drosera ? menziesii			
				GRASSES				Hypochaeris ? Hyp. glabra			
				Tetrarhena laevis	✓			annual Gadenia sp.			
								Pithocarpa cumbosa			
SHRUBS								Gonocarpus cordigera			
Xanth. acanthostachya	✓							SEDGES			
Acacia pulchella	✓		/					Tetraria ichnandra	✓		
Hakea undulata	✓			Cassutha glabella	✓			Lax fasciculata	✓		
Eriostemon spicatum	✓			Darwinia rubrodora				mesom tetragona	✓		
Dry undulata (niuea)	✓			Stylid bulbiferum	✓			Tetraria capillaris	✓		
Gomph marginata	✓			Drosera pallida				Leptocarpus sp. ? Hypobema	✓		
Acacia elata	✓			HERBS Trimalium ledif	✓		/	lepid angustatum	✓		
Nyctzia floribunda	✓			Sty brunozianum	✓			sterile Cyperaceae			
Remp elata	✓			Burch congesta	✓						
Hibb hypericoides	✓			Hydrocotyle sp.							
Cassutha rac. (ribbed fr)	✓		V	Haemodorum sp. strap leaf	✓						
Kennedia prostr.	✓			Lacmonia squarrosa							
Kingia aust.	✓			Leverhockia sp.							
Hakea trifurcata	✓			Bux camphoracea	✓						
Chorezoma dicksonii	✓			Stylidium calcareatum							
Calothrix ? torulosus	✓			Opere hispidula	✓		/				
Acarta L. oban? leaf sp.	✓			Hovea triseria							
Gomph ? polymorph				Drosera pallida							
				Thysanotus multifloris	✓						
				Sarcocolla clarens							

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 ELBKØ2

Record on Sheet

- Column 1 plant name

- Column 2 plant number

• Column 3 flowering time- TICK if species flowering

- Column 4 identification check

Date 10/12/96

Nexore

TREES	No	Fl	ID	SHRUBS (cont.)	No	Fl	ID	HERBS (cont.)	No	Fl	ID
								Mutisia floribunda			/
								Trumalia pedunculata			/
								Labiellia punctata			/
								Thomasia? glutinosa			/
								Dampiera alata			/
								Chaenocaulis sp			/
MALLEES								Stylidium affine?			/
								"Thysanotus?"			/
				GRASSES				basal rosette of long, fleshy leaves			/
								Calothamnus quad/rupicola?			/
SHRUBS								(TAM. NF reproduct)			/
								SEDGES			/
								Agonis - fruit for			/
								Leptospermum sp (MADS)			/
								(large-leaved myrtle)			/
								Astroloma? foliosa			/
				HERBS				Acacia nervosa/durata			/
								Scaevola frutescens			/
								Stipa sp			/
								Goodenia caerulea			/
								Goodenia / Scaevola sp.			/
								Schoenus sp			/

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Elms Brook - uplands South side SITE NUMER ELBK03

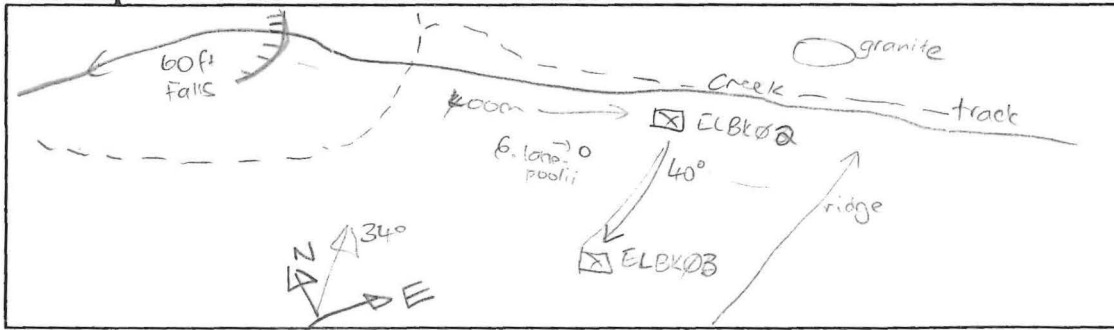
DATE TRIP 9.10.96 RECORDERS AM & ML

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

Geographic Location Latitude 32 04 08.1 S Longitude 116 02 28.3 E Altitude 210m
GPS ✓ Accuracy 16 sat
Map Sheet MUNDARING PDOP: 4.9

Photograph Name _____ Number 45 Roll #3

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 3 Aspect N NE 1.5 E SE S SW W NW

Surface Soil gravelly silt Depth to Rock 0-20cm Colour light brown - yellow (pallid zone)

Exposed Rock type granite % surface cover 35% size range 3cm - 5cm 70cm

Litter 5 % surface cover Depth (cm) 1cm

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

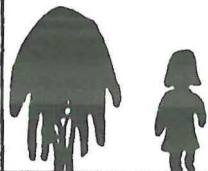
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Mulr)- use pencil only

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 - 15 m	under 5 m	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					2m <i>Beaufortia purpurascens</i> 1m <i>Veronica acrocarpa</i> 
COVER CLASS (%)				2-10%	>70%
DOMINANT SPECIES				<i>Pan. Oceanico.</i>	<i>Calolly. torulosa</i>
				<i>Arac. pull.</i>	<i>H. imbricata</i>
					<i>Hibb. hypericoides</i>

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					1m
COVER CLASS (%)		2-15%			-
DOMINANT SPECIES		Ptero. paniculatus	1		-
		Styl. brevis			-

4. VEGETATION CONDITION

Comments Granite health on laterite/granite influenced p.b.
Pallid zone solids. Emergent. Xan. acanthostachya
Mixed low shrub.

Adaptive
ELIAs

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

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

SITE No **ELBK03**

Record on Sheet

Date **Dec**

9.10.96 + 10.12.96 (R)

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

HERB ID SHEET ID

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Euc. calophylla</i> (seedling) ✓				<i>Templetonia biloba</i> ✓				<i>Eleocharis acicularis</i> ✓			
SHRUBS				<i>Eriostema spicatum</i> ✓				<i>Drosera sp. pumila</i>			
<i>Hakea undulata</i> ✓				<i>Baekia cantharomae</i> ✓				<i>Lomandra sp. indet.</i>			
<i>Xanth. acanthostachya</i> ✓				<i>Baeuflaria purpuracea</i> ✓				<i>Lomandra spartea</i> ✓			
<i>Hakea incrassata</i> ✓				<i>Hakea erinacea</i> ✓				<i>Drosera moniesii</i> ✓			
<i>Hakea bifurcata</i> seedling ✓				<i>Mitralia spinescens</i> ✓				<i>Styl. bulbiferum</i> ??			
<i>Grevillea bipinnatifida</i> ✓				<i>Andersonia bennettiana</i> ✓				<i>Conostylis setigera</i> ✓			
<i>Leucopogon sprengeloides</i> ✓								<i>Leptochloa sp. ovilla</i> ✓			
<i>Acacia teretifolia</i> ✓				GRASSES				<i>Laxmannia squarrosa</i> ✓			
<i>Pultinea ericifolia</i> ✓				<i>Parthenia setacea</i> ✓				<i>Diuris sp.</i>			
<i>Jacksonia alata</i> ✓				<i>Braea maxima</i> ✓				<i>Bororia tenuis</i> ✓			
<i>Trinellium SHRUBS ledifolium</i> var ✓				<i>Neracme alopecuroides</i> ✓				<i>Lomandra sericea</i> ✓			
<i>Isopogon dubius</i> ✓								<i>Pateraria pugnax</i> ?			
<i>Gompholobium shuttleworthii</i> ✓								SEDGES			
<i>Acacia pulchella</i> var <i>pulchella</i> ✓								<i>Schoenus graminatophyllus</i> ✓			
<i>Pimelea imbricata</i> var <i>piligera</i> ✓								<i>Schoenus natus</i> ✓			
<i>Hibbertia hypericoides</i> ✓								<i>Schoenus sp. indet.</i>			
<i>Agonis grandiflora</i> ✓				HERBS				<i>Mesochloa tetragona</i> ✓			
<i>Verticordia acerosa</i> var <i>acerosa</i> ✓				<i>Actinotus leucocephalus</i> ✓							
<i>Conostylis caricina</i> ✓				<i>Stackhousia monogyna</i> ✓							
<i>Cryptandra pungens</i> ✓				<i>Gonocarpus cordiger</i> ✓							
<i>Cryptandra arbutiflora</i> var <i>arbutiflora</i> ✓				<i>Stylidium brevicaule</i> ✓							
<i>Thomasia glutinosa</i> ✓				<i>Thysanotus spartea</i> ✓				<i>Xanthosia huegelii</i> ✓			
<i>Synaphea acutiloba</i> ✓				<i>Haemodorum dorsale</i> ✓							
<i>Metaleuca aff. scabra</i> ✓				<i>Pterodroma paniculata</i> ✓							
<i>Calochortus tomentosus</i> ✓				<i>Stylidium calcicatum</i> ✓							
<i>Gompholobium marginatum</i> ✓				<i>Stylidium brevicaule</i> ✓							
<i>Allocas. humilis</i> ✓				<i>Drosera stolonifera</i> ✓							
<i>Grev. pilulifera</i> ✓				<i>Cassia pennifolia</i> ✓							
<i>Conospermum huegelii</i> ✓				<i>Haemodorum laxum</i> ✓							
<i>Hovea hispidula</i> ✓											

v. poor specimen. ∴ some doubts. 10.12.96

Podolepis canescens / *gracilis* ✓

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 ELBLØ3

Record on Sheet

Date 10.12.96

- 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
								Acacia <i>Acacia teretifolia</i> (N)			
								<i>Thamnia glutinosa</i>			
								<i>Beaufortia purpurea</i>			
								<i>Pterocarya pyralis</i> ??			
								<i>Comph. sp. var pulvinata</i> ?			
								<i>Cassia</i> sp.			
MALLEES								Ficoides <i>platior</i>			
								<i>Thymelaea sparsa</i>			
				GRASSES				<i>Syntherisma sp</i>			
								<i>Danthonia</i> sp			
								<i>Hakea erinacea</i>			
SHRUBS								<i>Conocarpus cordiger</i>			
								SEDGES			
								<i>dep. araristum</i>			
								<i>domandia sparsa</i>			
				HERBS				<i>Agonis grandiflora</i>			
								<i>Leptospermum</i> sp			
								<i>Stylidium brevicaule</i>			
								<i>Schoenus</i> sp. dark bases			
								<i>Actinotus</i> sp.			
								<i>stackhouseia</i> sp.			
								<i>Xanthoria huongii</i>			
								<i>Mirbelia spinosa</i>			
								<i>Isopogon dubius</i> seedling			
				<i>Conostylis caricina</i>				Check id <i>Conostylis</i>			
								<i>Andropogon lehmannii</i>			

V. acerosa in EBNTD!

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No ELBK 03
 Date 9-10-96

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

Must be
Howea? Rhamnaceae

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Euc. caloph. (seedling)</i>	✓							<i>Eilethanthria</i>			✓
								<i>Raltanea</i> sp. (lvs head at top)			✓
								<i>Trimalium</i> led.			
								<i>Haemodorum</i> sp.			✓
								<i>Stylid. bulbiferum</i>	?		✓
								<i>Calostylis setigera</i>			
MALLEES								<i>Stadhoussa</i> sp.	✓		✓
								<i>Levenhookia</i> sp.			
				GRASSES				<i>Laxman squarrosa</i>	✓		
				<i>Briza maxima</i>	✓			<i>Duriv. sp.</i>			
								<i>Boronia white</i> sp. see ELBK 02			
SHRUBS								<i>Lomandra sarcocolla</i>			
<i>Verticordia acerosa</i>	✓		✓					SEDGES			
<i>Hakea undulata</i>	✓		✓	<i>Templetonia bulbosa</i>				<i>Mes. tetragona</i>	✓		
<i>Calotheca torulosa</i>	✓		✓	<i>Dros. stolonifera</i>			✓	<i>Schoenus</i> sp. annual			
<i>Xanth. acanth. 0520142</i>	✓		✓	<i>Waitzia paniculatum</i>	✓		✓	<i>Lepid</i> sp. lvs smooth			
<i>Mel. scabra</i>	✓		✓	<i>Neurachne alop.</i>	✓		✓				
<i>Jacksonia alata</i>	✓		✓	<i>Podolepis canescens</i> <i>gracilis</i>				* <i>S. bracteatum</i> for id.			
<i>Leucop. pulcherimus</i>	✓		✓	HERBS							
<i>Acacia pulchella</i>	✓		✓	<i>Conosp. haueglia</i>	✓						
<i>Hakea ncrassata</i>	✓		✓	<i>Drosera menziesii</i>			✓				
<i>Hakea trif. (seedling)</i>	✓		✓	<i>Eriost. spic.</i>	✓		✓				
<i>Syn. phala. petalotif</i>	✓		✓	<i>Stylid. calcitutum</i>			✓				
<i>Acacia</i> sp. lvs leaves flexu. for	✓		✓	<i>Grev. bipinnatifidz</i>	✓		✓				
<i>Gomph. nalg</i>	✓		✓	<i>Bae. camphrosmae</i>	✓		✓				
<i>Allocas. humilis</i>	✓		✓	<i>Rimelea cirtatum</i> *	✓		✓				
<i>Grev. pilulifera</i>	✓		✓	<i>Drosera</i> sp. pygmy							
<i>Hibb. hypericoides</i>	✓		✓	<i>Thomasia</i> sp. g	✓		✓				
				<i>Neurach alop</i>							
				<i>Platysace</i> sp.							
				<i>Gonocarpus cordig</i>	✓		✓				
				<i>Cryptandra</i> sp.			✓				

L. sprengeloides?

* P. imbricata

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Ellis Brook North. **SITE NUMER** EBNT 01

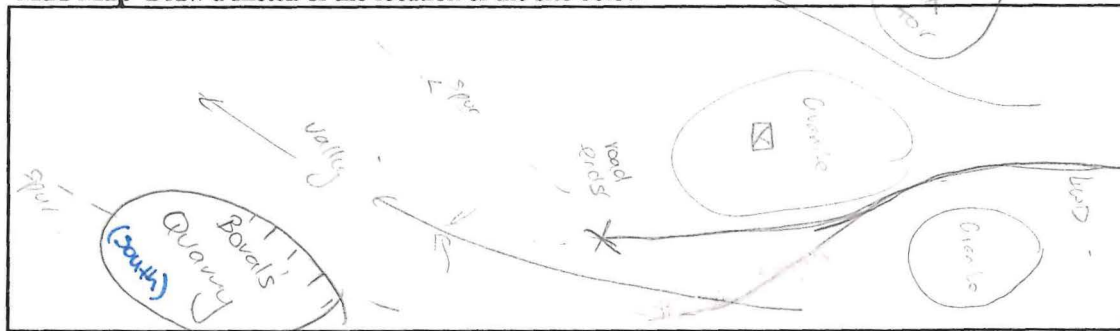
DATE TRIP 27.9.96 **RECORDERS** M & ML

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

Geographic Location Latitude 32 03 52.4 S Longitude 116 02 29.1 E Altitude 230m
GPS ✓ **Accuracy**
 6 tide gauges Map Sheet KELMSHOTT PDOP 3.2

Photograph	Name	Number
		# 33 + #34 + #35

Topographic Position (Circle the correct response)

<u>Upland</u>	<i>Lower slope</i>
<i>Upper slope</i> ← coded as 4	<i>Valley</i>
<i>Midslope</i> 4	<i>Washline</i>

2. SITE DATA Circle the correct response

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

Surface Soil *gritty loam* **Depth to Rock** *0-50 cm* **Colour** *Med brown*

Exposed Rock type *granite* % surface cover *50* size range

Litter	10	% surface cover	Depth (cm)	2-3 cm
--------	----	-----------------	------------	--------

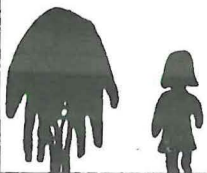
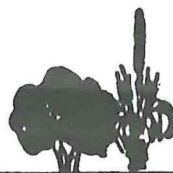
<i>Bare Ground</i>	7.5	% surface cover)
--------------------	-----	------------------

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					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)				30-70 (2-30)	under 10-30
DOMINANT SPECIES				<i>A. unirostrata</i> <i>C. rupestris</i> ?	<i>Callitriche glauca</i> <i>Scopolia</i> sp. <i>Doronicum filiforme</i> <i>Veronica pilosa</i>
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10-30%	2-10%		
DOMINANT SPECIES		<i>Stipagrostis</i> sp. <i>Lepidosperma</i> ? <i>Lepidosperma</i> ? <i>Lepidosperma</i> ?	<i>Lepidosperma</i> ? <i>Lepidosperma</i> ? <i>Lepidosperma</i> ?		

4. VEGETATION CONDITION

Comments

4 1/2.

BURNT - 4-5 y ago.

* *A. microphylla*, *Calothrix* - repeated
open low heath on broken granite

* Drainage - Average.

2

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIFIC PRESENCE

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

SITE No EBNT01

Record on Sheet

Date Decs. from

27.9.96 + 10.12.96

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

HERB ID
DATA
HERB SHEET

TREES	SHRUBS	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
					<i>Drosera manjucoli</i> ✓				<i>Wahlenbergia preissii</i> ✓	✓	✓	✓
<i>Halca perfoliaris</i> ✓				✓	<i>Drosera cuthrenhiza</i> ✓				<i>Homaloscladium homalocarpum</i> ✓			✓
<i>Hibb. subvaginata</i> ✓				✓	<i>Bombyx glaucocarpa</i> ✓				<i>Quinetia urvillei</i> ✓	✓		✓
<i>Petrophile biloba</i> ✓				✓	<i>Stylidium repens</i> ✓				<i>Crassula exserta</i> ✓	✓		✓
<i>Hakea erinacea</i> (seedling) ✓				✓	<i>Stylidium bulbiferum</i> (in?)				<i>Levenhookia sp. stipitata</i> ✓		✓	✓
<i>Hakea undulata</i> (seedling) ✓				✓					<i>Actinotus leucocephalus</i> ✓	✓	✓	✓
									<i>Podotrocha</i> (rhysanthium) seedling ✓			✓
<i>Pimelea imbricata</i> var <i>piligera</i> ✓	✓	✓		✓					<i>Hyalosperma demissum</i> ✓	✓		✓
<i>Darwinia citriodora</i> ✓				✓	GRASSES				<i>Platysace juncea</i> ✓	✓	✓	✓
<i>Jacksonia alata</i> ✓	✓	✓		✓	<i>Poa caryophylla</i> ✓	✓	✓	✓	<i>Eleocharis acicularis</i> ✓	✓		✓
<i>Calothamnus rupestris</i> ✓	✓	✓		✓	<i>Amplipogon strictus</i> ✓		✓	✓	<i>Thysanotus marginatus</i> ✓	✓	✓	✓
<i>Goodenia fasciculata</i> ✓	✓	✓		✓	<i>Braja maxima</i> ✓			✓	<i>Isotria hypocrateriformis</i> ✓			✓
<i>Verticordia plumosa</i> var <i>plumosa</i> ✓	✓	✓		✓	<i>Vulpia myuros</i> ✓	✓			<i>Linum trigynum</i> ✓		✓	
<i>Andersonia aristata</i> ✓	✓			✓					SEDGES			
<i>Acacia oenanthophylla</i> subsp <i>patulifolia</i> ✓	✓	✓		✓					<i>Scheuchzeria palustris</i> ✓	✓		✓
<i>Hovea pungens</i> ✓	✓	✓		✓	HERBS							
<i>Mirbelia spinosa</i> ✓	✓	✓		✓	<i>Tripterococcus brunonis</i> ✓			✓				
<i>Calytrix variabilis</i> ✓				✓	<i>Siloxerus multiflorus</i> ✓		✓	✓	<i>Hypochaeris glabra</i> ✓			✓
<i>Calytrix glutinosa</i> ✓					<i>Trachymene pilosa</i> ✓		✓	✓	<i>Stylidium bulbiferum</i> (12) ✓		✓	✓
on delts sheets: <i>C. glutinosa</i> ✓	✓	✓		✓	<i>Parentucellia latifolia</i> ✓		✓	✓	<i>Ursinia anthemioideo</i> ✓		✓	✓
<i>C. glutinosa</i> ✓	✓	✓		✓	<i>Centrolepis aristata</i> ✓		✓	✓	<i>Parentucellia viscosa</i> ✓		✓	✓
<i>C. glutinosa</i> entered					<i>Levenhookia pusilla</i> ✓		✓	✓	<i>Laxmannia squarrosa</i> ✓		✓	✓
					<i>Hydrocotyle callicarpa</i> ✓		✓		<i>Centrolepis drummondiana</i> ✓		✓	✓
<i>Hibb. ?spicata</i> aurea (State) ✓				✓	<i>Thysanotus tenellus</i> ✓		✓		<i>Centrolepis alpeyroides</i> ✓		✓	✓
ADS <i>Dodonaea ceratocarpa</i> ✓	✓	✓			<i>Burchardia congesta</i> ✓		✓	✓	ADS <i>Stylidium calcaratum</i> ✓			✓
ADS <i>Lambertia multiflorus</i> ✓	✓	✓			<i>Styphandra glauca</i> (white form) ✓		✓	✓	ADS <i>Lambertia multiflorus</i> ✓			✓
					<i>Mitotia tenuifolia</i> (var <i>tenuifolia</i>) ✓		✓	✓	ADS <i>Dodonaea ceratocarpa</i> ✓			✓
					<i>Triglochin centrocarpum</i> ✓		✓	✓	ADS <i>Verticordia insignis</i> ✓		✓	✓
					<i>Pterochaeta paniculatum</i> ✓		✓	✓				

→ recorder T. pilosa

✓ not in original delts sheets:

subsp. insignis.

Lomandra caespitosa

9/10/96

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE	
SITE No	EBNTD 1
Date	27.9.96

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

[illegible]

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 EBNTØ1

Record on Sheet

- Column 1 plant name
 - Column 2 plant number
 - Column 3 flowering time- TICK if species flowering
 - Column 4 identification check
- check petrophile birdsa.
Not seen on record

Date 10.12.96

Rescore

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
								Scorodiscus			
								Pilea canyodryllae			
								Pimelia imbricata			
								Scorodiscus fasciculata			
								Pratysaccae sp			
								Holcus purpureus			
MALLEES								Small annual grass			
								Lernhookia pusilla			
				GRASSES				Wahlenbergia			
								Lernhookia sp (pink)			
								Verticordia acerifolia ? (NF)			
SHRUBS								Actinotus sp			
								Waitzia paniculatum			
								SEDGES			
								Lebelia sp (NF) Isotria			
								Verticordia plumosa (NF)			
								Thysanotus sp (daisy)			
								Hakea erinacea (seedling)			
				HERBS				Hakea undulata (seedling)			
								Amphipogon sp			
								Briza maxima			