

WK01

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA YILL SITE NUMBER ONEDATE TRIP 29-8-1997 RECORDERS N/G/M/LDATE TRIP 7-10-99 RECORDERS N/G/A

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 55 29.6 S	Longitude	117 20 45.9 E	Altitude
	GPS		Accuracy		
	Map Sheet				H00P 115

Photograph	Name	NG	Number	10
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Topographic Position	(Circle the correct response)	
Upland	Lower slope	granite rock
Upper slope	Valley	
Midslope	Washline	

2. SITE DATA Circle the correct response

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	E	<u>SE</u>	S	SW	W	NW
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Surface Soil	Depth to Rock	20cm	Colour
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Exposed Rock	type	granite	% surface cover	<1	size range	10-30
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Litter	lvs, twigs	% surface cover	10-30	Depth (cm)	2cm
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Bare Ground	% surface cover	(10-30-50)
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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%

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	1-2	2-10			
DOMINANT SPECIES	Euc. wandoo	Allocas hugh			
	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30-70				
DOMINANT SPECIES	Hakea petiol Caloth. quad				
	GRASSES	HERBS	SEDGES	over 0.5m	
					under 0.5m
LIFE FORM					
COVER CLASS (%)		20-30			10-30
DOMINANT SPECIES	Nerachne	Borja sphaeroc stypand glauca			Lepidosperm - viscid

4. VEGETATION CONDITION

Comments

very good - burnt

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20x20

5. SPECIES PRESCENCE

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

SITE No YILL I
Date 29-8-1997
7-10-1999

Record on Sheet

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

? same

TREES

Euc wandoo
Allocas huegeliana

MALLEES

SHRUBS

Hakea petiolaris
Calothamn quadrif
Stackhous monocyn
Opercul vag

SHRUBS (cont.)

7/10/99
X Stylid calcaratum
X Alra caryophylla
X Peranthera microphylla
X Podotheca angustif
X Arctotheca calendula
X Hibbertia ~~erecta~~ rupicola (VSP)
X Gonocarpus nodulos
X Sonchus oleraceus

GRASSES

Nerachne alopecur
Stipa (lge)
Stipa trichophylla
" elegant
Danthonia
Alra cap
Rostraria pumila

HERBS

Drosera glanduligera
Stypandra glauca
Birdia sphaerocephala
X Waitzia lacumini ~~albicans~~
Podolepis lessonii
Hypochaeris glabra
Trachym pilosa
Millotia tenuifolia
Hyalosperm demissum
Ursinia anth
Thysanot paters
X Blennospora drumm
Stylid pilif

// Waitzia sudveolens

HERBS (cont.)

Caladenia flava
Diuris ~~reacina~~
Drosera macranth
Pterostyl. vittata ~~sandwii~~ ~~argentea~~
(VSP) Waitzia citrina (Rhodanthe citrina)
Thysanotus
Quinetia urvill
Thysan paterson
Parentuc latifol
Pterostyl. recurva
Romulea rosea
Thysan dichotomus
Arthrop. capillip
SEDGES
Lepidosperma viscidul
Schoenus nanus

Podotheca angust

7-10-1999

X Hydrocotyle callicarpa
X Anagallis anensis
X Daubus glochid
X Centrolepis pilosa
X Vulpia myuros
X Caladenia integra (VSP)
X Homalosciad hdmalo c
X Isotoma hypocratif

check this VSP

TAAL I

WK02

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TAALBLYN SITE NUMBER ONEDATE TRIP 29-8-1997 RECORDERS M/N/L/GDATE TRIP 12-10-99 RECORDERS NG/GK/AW

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 58 55.9 S Longitude 117 32 21.9 E Altitude
GPS Accuracy HDDP 4.6
Map SheetPhotograph Name W/G Number 8Topographic Position (Circle the correct response)
Upland Lower slope
Upper slope Valley edge Lake
Midslope Washline

2. SITE DATA Circle the correct response

Slope flat gentle steep Aspect N NE E SE S SW W NWSurface Soil sandy clay Depth to Rock deep Colour greyExposed Rock type % surface cover NONE size rangeLitter twigs, stems % surface cover 30-50 Depth (cm) 2-10Bare Ground % surface cover 30-70

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%

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		30-70			
DOMINANT SPECIES		<i>Cas. obesa</i>			

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					30-70
DOMINANT SPECIES					<i>Halosarcia indica</i> <i>Dysphyma clav</i>

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30-70	2-10			
DOMINANT SPECIES	<i>Elrh. long</i> <i>Aira cap</i> <i>Vulpia</i>	<i>mixed</i>			

4. VEGETATION CONDITION

Comments

salt affected, water rising

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

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

Cas. Obesa

—dead & margins

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Casuarina obesa								12-10-1999			
								X Bromus hordeaceus			(VSP)
								X Parentucella latifolia			
								X Gynandris setifolia			
								X Centaurium spicatum			
								X Triloch stowardii			(VSP)
MALLEES								X Rostaria pumila			
								X Eremophyllum racem			
								X Cotula cotuloides			
				GRASSES							
				Stipa elegantissima							
				Ehrharta longifolia				Avellina michelii			
				Avena barbata							
SHRUBS				Hordeum leporinum				SEDGES			
Halosarcia indica l.f. distans				Lolium rigidum							
Dips Disphyma clav				Valpia myuros							
				Aiza capiana (coryophyll)							
				Bromus diandrus							
				Briza minor							
				HERBS							
				Gonchus oleraceus							
				Senecio glossanthus							
				Arctotheca calendula							
				Hypochaeris alabra							
				Cotula ? - bipinnata				12/10			
				Colandrinia calyptota							
				Trilochin mucronata							
				Trilochin calcitrap ssp. mcurvum				(VSP)			
				Hydrocotyle diantha							
				Apium annuum							
				Parietaria debilis							
				Ursinia anth							
				Anagallis arvensis							

Transfer of 29/8
1st class

TOOL 5

WK03

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TOOLIBIN (NR) **SITE NUMBER** FIVE

DATE TRIP 29-8-1997 **RECORDERS** N/L/G/M

DATE TRIP 12-10-99 **RECORDERS** NG/SK/ALW

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 55 06.3 **S Longitude** 117 36 48.3 **E Altitude**
GPS **Accuracy** ADOP 6.1
Map Sheet

Photograph **Name** NG **Number** 7

Topographic Position (Circle the correct response)
 Upland ☐ Lower slope ☐
 Upper slope ☐ Valley ☐
 Midslope ☐ Washline ☐
Lake bed

2. SITE DATA Circle the correct response

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

Surface Soil clay **Depth to Rock** deep. **Colour**

Exposed Rock type _____ % surface cover NONE size range _____

Litter twigs, stems % surface cover 10-30 Depth (cm) 2-15

Bare Ground % surface cover 30-70 (moss in winter)

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

3. VEGETATION STRUCTURE AND COVER

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

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 (%)		10-30			
DOMINANT SPECIES		Mel-strobl Cas.ob			
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
GRASSES					
	over 0.5m	under 0.5m			
LIFE FORM					
COVER CLASS (%)		30-70			
DOMINANT SPECIES		Specularia salina			

4. VEGETATION CONDITION

Comments

? very good

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 TOOL 5

Record on Sheet

Date 29-8-1997

12-10-99

WK 03

- 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
Mpl. strobilifera -								12-10-1999			
Casuarina tobesa -								x Calandrinia -			
								x Podotrocha angust -			
								x Bromus madrit -			
								x Schismus/Rostoria -			
								x Brassica toment -			
								x Eriocharta longiflora -			
MALLEES								x Bromus hordeaceus -			
				GRASSES				x Agrostis avenacea (usp) -			
				Aira lupiana -				x Lolium rigidum -			
				Vulpia myuros -				x Carpobrotus modest -			
SHRUBS								x Calandrinia calyptata (usp) -			
Sperg. Sarcocornia quinq -								x Hordeum leporinum -			
								SEDGES			
								x Wartzia acumin -			
								x Podolepis lessonii -			
								x Trifolium tomentos -			
								x Cotula bipinnat -			
				HERBS				x Gerastium glomerat -			
				Spergularia salina diandra -				x Sagina capetala -			
				Arctotheca calend -							
				Atriplex -							
				Senecio glossanthus -							
				Crassula natans var minus -				ADD: Gerastium (sp) -			
				Cotula coronopif -				comatum (usp) -			
				Wilsonia humilis -							
				Trilochium mucron -							
				Cotula australis -							
				? CARTOPHYLLACE salina -							
				Sagina + Spargula rubra -				12/10/99			
				Pogonolepis stricta -							

check Q18 is problems

WK 04

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA DULBINING N.R. SITE NUMBER ONE

DATE TRIP 28-8-1994 RECORDERS M/L/N/G

DATE TRIP 12-10-1999 RECORDERS NG/GK/AW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

fauna site

Road Location

Sm Summer time only

Geographic Location

Latitude 32 53 25.4 S Longitude 117 38 45.0 E Altitude

GPS

Accuracy

Map Sheet

H00P 2.5

Photograph

Name

NG

Number

2

Topographic Position

Upland

Upper slope

Midslope

Lower slope

Valley

Washline

(Circle the correct response)

edges lake

2. SITE DATA Circle the correct response

Slope

flat

gentle steep

Aspect N NE E SE S SW W NW

Surface Soil

clay

Depth to Rock

—

Colour brown-grey

Exposed Rock

type

% surface cover

NONE

size range

Litter logs, twigs, vs

% surface cover

30/50

Depth (cm)

Bare Ground

% surface cover)

10/20

A9617

AMG

560406

6360667

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				
DOMINANT SPECIES	Euc. salmon				
	(dead) E. toxo (dead)				
	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 				
COVER CLASS (%)	30/50				
DOMINANT SPECIES	Melal. lateriflora				
	GRASSES		HERBS	SEDGES	over 0.5m
LIFE FORM	 			 	 
COVER CLASS (%)	2-10		10/20		2-10
DOMINANT SPECIES	weeds				

4. VEGETATION CONDITION

Comments

poor - salted

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 DULBING I

Record on Sheet

Date 28-8-1997

121

12	-10	-99
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1. $\frac{1}{2} \ln 2$

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

WK 04

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. toxoph (dead)								Lolium rigid			
E. salmonop (dead)								Thy san pat			
								Alfennosp. drumm			
								Pterostich off num 28/7 "DULB p1" (vsp)			
								Trifolium			
MALLEES				Rotaria vistata (vsp)				Triglochin calcitrapum incurvum			
								Schrenk nanus			
				GRASSES				Spergularia diandra			
				Stipa trichophylla				Thelymitra off macrophylla (vsp)			
acuminata ssp acuminata				Holium rigidum							
SHRUBS				stipa elegantiss							
Mel. latriflora var				Vulpia myuros				SEDGES			
acutifolia				Danthonia				Lepidosperma ? squarrosa sp Az			
				Brija minor				Aphnia ancistophylla			
Comep integerrim				Aira caryophyllea (vsp)							
				Rostraria pumila =				11/10/99			
				Avellinia unilobii				X Crassula colorata			
				HERBS				X Linum marginale (vsp)			
				Hypochaeris glabra				X Trifolium toment			
				Anag arvensis				X Crassula pedicellosa			
				Cotula bi-austalis				X Phyllanthum paradox			
				Romulea rosea				X Bromus hordeaceus (vsp)			
				Hydrocotyle diantha				X Triglochin calcitr ssp incurvum			
				Apium annuum (vsp)				X Selene ovata			
				Ursula anthem				X Crassula sieberiana			
				Arthropod capillipes				X n peduncul			
				Centaurium spicat				X Spergula diandra/rubra			
				Bromus madritense rubens				X Centrolepis polygyn			
				Sonch olerac				X Eremophilum caerulea tenellum			
				Bulbine semiharb							
				Centaurium spicatum							

// X Paraphloe in cana (VSP)
 X Thelymitra

✓ x Polypogon levellus
✓ x Goodenia micrantha

✓ ~~X~~ *Plantago coronopus*
✓ ~~X~~ *Hydrocotyle ~~collinosa~~ rugulosa*

WK05

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA SCRIVENER SOAK SITE NUMBER I

DATE TRIP 28/8/1997 RECORDERS L/M/N/G

DATE TRIP 12-10-99 RECORDERS GK/AW/NG

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° 53' 28.2" S Longitude 117° 45' 31.0" E Altitude
GPS Accuracy H00P 3.6
Map Sheet

Photograph Name NG Number I

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 sandy loam Depth to Rock deep Colour grey

Exposed Rock type _____ % surface cover NONE size range _____

Litter ^{logs} twigs vs % surface cover 70/90 Depth (cm) 2-10

Bare Ground % surface cover 10/20

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

3. VEGETATION STRUCTURE AND COVER

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			 		
COVER CLASS (%)	10-30		2		
DOMINANT SPECIES	<i>Euc. longicorn</i> <i>Euc. salmon</i>		<i>Ac. acuminata</i>		
SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 				
COVER CLASS (%)		10-20			2
DOMINANT SPECIES		<i>Oleoria axillifera</i> <i>eremicola</i>			<i>Westring rigida</i>
GRASSES		HERBS	SEDGES		under 0.5m
LIFE FORM	 		  		  
COVER CLASS (%)	2-10	2			
DOMINANT SPECIES	<i>Erih. longit</i> <i>stipa eleg</i> <i>Nardachne Salop</i>	<i>Lom. effusa</i> <i>Calandrinia</i>			

4. VEGETATION CONDITION

Comments

very good — weeds marching up slope
(*Eh-hata longiflora* / Freesia's)
Brassica tournefortii

20x20 E. longicornis

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

Euc. wandoo

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. longicornis ✓		✓						12-10-99			
Ac. acuminata ✓		✓						X Vulpia myuros -			(vsp)
Euc. wandoo ✓		✓						X Trachymene pilosa ✓			
								✓ X Calandrinia calyptata (vsp)			
								X Stipa (lge) humilis (v)			
								X Helichrysum leucopsid ✓			
MALLEES								X Sonchus olerac ✓			
								X Arctotheca calend ✓			
				GRASSES				X Crassula exserta ✓			
				Stipa elegantiss ✓				X Lepidium rotundum ✓			
				Mewachne alopec ✓				✓ X Trifolium subterr ✓			
SHRUBS				Elrharta longifl ✓				X " tomentos ✓			
Olea axillaris seric ✓		✓		Danthonia ✓							
Westringia rigida ✓		✓		Stipa trichophyll ✓				SEDGES			
Clematis glabris ✓		✓		Lolium rigid ✓				Desmod. asper ✓			✓
Delicatula ✓				Amphipogon turbin ✓				✓ Lepidosp tenae ✓			✓
								costale ✓			
				HERBS							
				Thys patersonii ✓							
				Podolepis ✓							
				Brassica tournef ✓							
				Ursinia anthem ✓							
				Lomandra effusa ✓							
				Arthrop capill ✓							
				Hypochaeris glabra ✓				Freesia hybrid.			
								(adj)			
								Conostylis (adj) stylata (adj)			
								prolifera			
				Calandrinia remota calypt ✓							
				Helichrysum leucopsid ✓							

WK06

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA HARRIS SMITH **SITE NUMBER** TWO

DATE TRIP 28-8-1997 **RECORDERS** L/M/N/G

DATE TRIP 13-10-1999 **RECORDERS** GK/AN/NG

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° 54' 39.01 S **Longitude** 117° 53' 40.2 E **Altitude** _____
GPS **Accuracy** ± 100 m
Map Sheet _____

Photograph **Name** NG **Number** 35

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 sandy clay **Depth to Rock** 70 cm **Colour** grey

Exposed Rock type NONE % surface cover _____ size range _____

Litter twigs, lvs % surface cover 10-30 **Depth (cm)** 2-5

Bare Ground % surface cover 10-30

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

3. VEGETATION STRUCTURE AND COVER

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			 			30m 10m
COVER CLASS (%)						
DOMINANT SPECIES						
SHRUBS					SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m	
LIFE FORM	 					2m 1m
COVER CLASS (%)	2		30/50	10-30		
DOMINANT SPECIES	<i>Grevill hookerian</i>		<i>Banksia</i> sp " <i>baueri</i> <i>Dry. cynar</i>	<i>Hibiscus</i> sp " <i>sp</i> <i>Isop. baxteri</i>		
GRASSES		HERBS	SEDGES	under 0.5m		
			over 0.5m			
LIFE FORM	 	  	  	  		1m
COVER CLASS (%)	2-10	2-10	10-30	10-30		
DOMINANT SPECIES	<i>Neurachne</i>	<i>Drosera zosterifolia</i>		<i>Sichemum</i>		

4. VEGETATION CONDITION

Comments

excellent

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 HARRISMITH 2

Record on Sheet

Date 28-10-1997

13-10-1999

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

WK 06

micrantha var pubescens

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
~~Lehmannia ssp pubescens~~				~~Lasianthus microcardium~~				~~Beaufortia~~			
~~Andersonia caerulea~~				~~Adenanthos argentea~~				~~Calytrix breviseta ssp~~			
~~Dryandra cuneata~~				~~Dryandra confertifolia confertifolia~~				~~Acacia squamata~~			
~~Verticordia lasynis (usp)~~				~~Banksia (violacea) - 12/10~~				~~Borreria sp stolle~~			
~~Cassia pomifera~~				~~Dorcasia procera teretifolia~~				~~Xanth nana~~			
~~Hibb. Zosteria stowardii~~				~~Alluvias humilis~~				~~Personia fort~~			
MALLEES				~~Dryandra~~				~~Hemelia spathulata~~			
				~~Dampiera feres juncea~~				~~Hibbertia exasperata~~			
				GRASSES							
				~~Neurachne aliaplex~~							
~~Glissrocharum flav~~				~~Amphipogon~~				~~torbinatus (12/10)~~			
SHRUBS											
~~Bank baueri~~								~~Lepidosperma brunum~~			
~~h spharoc (blue)~~								SEDGES			
~~Brylles hookeriana~~				~~eggiana~~				~~Desmodium aspera~~			
~~Leptosy erub~~								~~Schoenus~~			
~~Hakea lehmanniana~~				~~rhadinopoda~~				~~Mesomelaena stygia~~			
~~Dorcasia & cardiophylla~~				HERBS				~~Lepidoch chaet~~			
~~Dryandra cynaroides~~				~~Drosera zonaria~~				~~Schloenus (live H1)~~			
~~Petroph brevifolia~~				~~Potersonia juncea~~				~~Lepidosperma sp. P1~~			
~~Dryandra nivea~~				~~Chaenax serra~~				~~Schoenus subflavis~~			
~~Baeckea preissiana (usp)~~				~~Caxmannia palacra~~				~~Hypolaena ramos~~			
~~Hibbertia pumilio~~				~~Drosera macrantha~~							
~~Cryptandra myriantha~~				~~" (exgma)~~				~~gahnia~~			
~~Lambert echin ilicifolia~~				~~Leporella fimb~~				13-10-1999			
~~Hakea flabellif~~				~~Canostylis 4 (as H1) - 12/10~~				~~x Millotia~~			
~~Isopogon baxit~~				~~Stylid (as yellow H1) - 12/10~~				~~x stylidium (as H1)~~			
~~Calytrix 3 leshanet. (usp)~~				~~Calad reptans~~				~~x Levenhookia pauciflora~~			
~~Melaleuca (grey) tuberculata~~				~~Thys pat mang~~				~~x Tricaryne tenella~~			
~~Hibbertia sp. 7 gausp~~				~~Pterox sang~~				~~x Xanthorrhoea nana~~			
~~Isopogon teretif~~								~~x Caustis dioeca~~			
~~Dorcasia~~								~~x Canostylis H. pusilla~~			

✓ Banksia gardneri var hemalis

Melaleuca subsp. 13/10.
tuberculata
squamellosum

x Drosera pyramidalis
x Petroph. 2
x Santinuder

~~WK08~~

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

WK07

BUSHLAND AREA TUTA SITE NUMBER SIX
DATE TRIP 31-8-1997 RECORDERS LG/M/N
DATE TRIP 8-10-99 RECORDERS NG/GK/AW
DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Fauna

Road Location

Geographic Location Latitude 32°32'38.5" S Longitude 117°16'33.6" E Altitude
GPS Accuracy HDOOP 4.2
Map Sheet

Photograph Name NG Number 20

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

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 Colour red

Exposed Rock type granite % surface cover 42 size range 2-10

Litter + twigs, vs % surface cover 70-90 Depth (cm) 2-10

Bare Ground % surface cover 0

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.

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		30-70			
DOMINANT SPECIES		Alloc. huegel Eux. loph. lba (ulamon) Ac. acumin			

	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	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30	10-30			
DOMINANT SPECIES	Stipa	Stach. monog Borya sphaer Cheilanthes aut-t			

4. VEGETATION CONDITION

Comments

excellent

WV 08 WK 07 TUTANING SIX

20x20

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 TUTA 6

Record on Sheet

Date 21-8-1997

8-10-1999

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

Euc. wandoo (rare)

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. loxophleba		✓		Caladenia saccar				Trachym pilosa			✓
Acacia acumin		✓		Caesia alfordii				Lagochilera huegelii			✓
Allocas huegel		✓		Thysanotus paterson		✓		Poddolepis lesson			✓
				Anlaa arvensis		✓	✓	Ponocarpus nodulosus			✓
				Blenhucellia latifol		✓		Uifellera cynopos			✓
				Millotia				Homalosp homaloc			✓
MALLEES				Rutidosia multiflora				Hyalosperm xdeniss			✓
								Aphelia drumm			
				GRASSES				Pterostylis aff nana "IRANDRA"			✓
				Stipa trichophylla			(USP)	Elythranth brunon			
				Nephrachne alopecur							
SHRUBS											
8/10/1999								SEDGES			
X Centrolepis inconsp								Lepidosperma (terete)			✓
X Anthropod preissn								8-10-1999			
X Briza maxima								X Trachymene ornata			
X Hydrocotyle callicarpa								X Stackhousia monogy			
X Rhodanthe laevis				HERBS				X Galium murale			
X Poxanthera microphylla				Chelanthes austro-tenui		✓		X Phyllangium paradox			
X Ursinia anthem				Burys sphaerocarp		✓	✓	X Aiza corybphylla			
X Thysanotus tenellus				Drosera glanduligera		✓	✓	X Drosera sub hirtella			sub hirtella
				" bulbosa				X Caesia (alfordii)			
				Lawrenciella davenp		✓	✓	X Goodenia berardiana			
				Drosera menziesii		✓		X Waitzia citrina			
				Schoenus				X Chaenactis versic			
				Lobelia tenuis				X Hydrocotyle medicag			
				Goodenia arida			✓	X Stylidium emarg			
				Chaenactis corymb				X Calceolaria hirta Uroea			
				Anthrop cap			✓	X Schoenus nanus			
				Blenhospira drumm		✓	✓	X Lechenostoma pusilla			
				Hypochaeris glabra		✓		X Thelymitra (leaf)			

X Danthonia acerosa
X Centrolepis aristata

TUTANING NR WK07

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TUTA SITE NUMBER 5 WK08

DATE TRIP 31-8-1997 RECORDERS G/M/N/L

DATE TRIP 8-10-1999 RECORDERS AK/NG/PAW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Fauna

Road Location

Geographic Location Latitude 32°32'28.5" S Longitude 117°16'49.4" E Altitude HOOP 3.1

GPS Map Sheet _____ Accuracy _____

Photograph Name NG Number 19

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 sandy clay **Depth to Rock** ? **Colour** yellow-gray

Exposed Rock type _____ % surface cover NONE size range _____

Litter Logs, twigs, lvs % surface cover 30-70 Depth (cm) 2-20

Bare Ground % surface cover) 30-50

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

3. VEGETATION STRUCTURE AND COVER

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>Euc. wandoo</i>		<i>Ac. acumin</i> <i>Alloc. huegel</i>		

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			2-10		
DOMINANT SPECIES			<i>Gastrol. prarif</i>		

GRASSES		HERBS		SEDGES	
	over 0.5m			under 0.5m	
LIFE FORM					
COVER CLASS (%)	< 2	30-70		2-10	
DOMINANT SPECIES		<i>Burcha sphaeroc</i> <i>Lom. effusa</i>		<i>Desmodi. asper</i>	

4. VEGETATION CONDITION

Comments

excellent

WK 07 WK 08

20x20

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 TUTA 5

Record on Sheet

Date 31-8-1997

2-10-1999

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

Same

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
✓ Eur. wandoo			✓ (usp)	Pterostylis vittata gap slope				Podolepis canescens			
Alloca huegeliana			✓	Drosera bulbosa			✓	Daucus glochid			✓
Acacia acuminata			✓	u neesii subhirtella subhirtella			✓	Ptilotus manglesii			✓
				Caesia micrantha				Chaemase cordymlb			✓
				Goodenia occid				Thysanot = tenellus			
				Crassula colorata				Phyllangium paradox			
MALLEES				Podotrocha angustif			✓	Erodium cyan			✓
				Rhodanthe laevis				Ursinia anthembid			✓
				GRASSES				Lobelia ? tenuis			
				Stipa elegantissima (usp)				Ophoglossum lusitan			
				Neobachne (lopecur) long			✓	Pterostylis recurva			
SHRUBS				Stipa trichophyllata (usp)				Anagallis arven			✓
Gastrolob parviflorum			✓	Eutharta longiflora				Caladenia sacc			
Ptilotus declinatus			✓	Vulpia myuros			✓	SEDGES			
Astroloma serratif			✓	Stipa elegantissima			✓	Desmodium aspera			
✓ Avellina michellii				Aristida contort			✓	Lepidosperma ? tenuis			(usp)
2/10/1999				Pterostylis worden 3/8							
✗ Aca coryophylla			✓	Aca cupiana							
✗ Trachymene pilosa				HERBS				Quinetia arvillei			✓
✗ Schizanthus rostrata parviflora				Hypochaeris glabra			✓	Wahlenb preissii			✓
✗ Hyalospermum demiss				Lomandra effusa			✓				
✗ Centropogon inconspic				Lagenaria huegelii			✓	8/10/99			
✗ Pentaschistis arolidrys				Pelargonium havassae			✓	✗ Rhodanthe manglesii			
✗ Calotis hispid				Podolepis lessonii			✓	✗ Ptilotus declinatus			
✗ Levenhook pusilla				Arctostaphylos capillipes			✓	✗ Zalusnuykia divaric			
✗ Lobelia tenuis				Blennospora blunum			✓	✗ Trichocline (glabrous)			
✗ Biachycome perpusilla				Millettia tenuiflora			✓	✗ Briza minor			
✗ Bromus adit rubens				Planicula				✗ Amphipogon strictus			
✗ Galium murale				Borua sphaeroceph			✓	✗ Dantlania			
✗ Nicotiana occid				Hydrocotyle pterocarpa			✓	8/10/99 Hydrocotyle callicarpa			✓
✗ Trachymene ornata				Lomandra micrantha							
✗ Hydrocotyle				Trachymene cyanopetala			✓	Crassula colorata colorata			

✓ Trachymene cyanopetala

8/10

8/10

TUTANNING NR

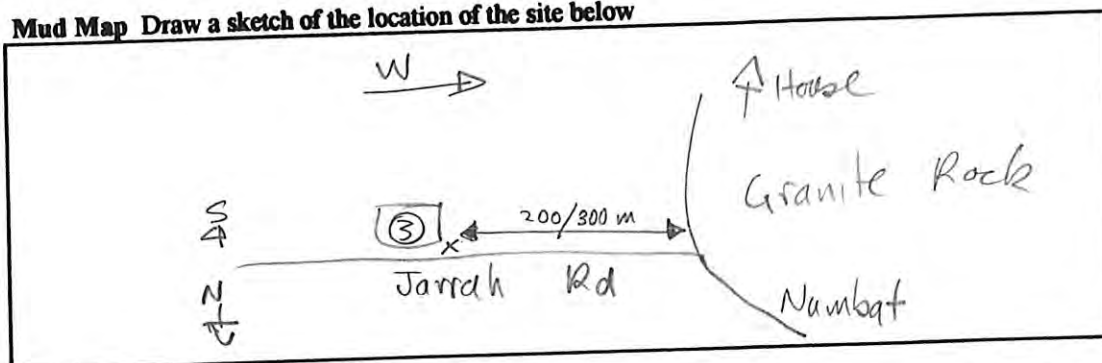
WK09

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TUTA SITE NUMBER 3
 DATE TRIP 31-8-1997 RECORDERS N/L/G/M
 DATE TRIP 8-10-99 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Fauna
site

Road Location

Geographic Location Latitude 32°33'34.5 S Longitude 117°20'39.1 E Altitude
 GPS Accuracy 400P 2.2
 Map Sheet

Photograph Name NG Number 12

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 sandy clay Depth to Rock 10 cm Colour yellow-brown

Exposed Rock type laterite % surface cover 30-50 size range 2-10

Litter lvs, twigs % surface cover 10-30 Depth (cm) 2-10

Bare Ground % surface cover 30-50

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

3. VEGETATION STRUCTURE AND COVER

3. VEGETATION STRUCTURE AND COVER

Record	appropriate line item	cover	class	year
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 (%)				30-50	10-30
DOMINANT SPECIES				<i>Hakea leh</i> <i>Pete. divone</i> <i>Beauveria ely</i> <i>Dry. armata</i>	<i>Isop. villos</i> <i>Damp. tres</i> <i>lindley</i> <i>Nemcia</i> <i>Dry. prot</i> <i>Hibb ? exasp</i>

GRASSES		HERBS		SEDGES	
	over 0.5m			over 0.5m	under 0.5m
LIFE FORM	 	 	  		 
COVER CLASS (%)	< 2	< 2			2-10
DOMINANT SPECIES		<i>Damp. welliana</i>			<i>Lepidosperma</i> <i>Calystis</i>

4. VEGETATION CONDITION

Comments

excellent

WK 09

20x20

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 TUTA 3

Record on Sheet

Date 31-8-1997

8-10-99

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

Euc. drummondii
 " accendens (scattered)
 Xanthorrh. drummondii

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				~~Dampiera~~ ~~laes~~ lindleyi (sp) ✓				8-10-99			
				Jacksonia lehmann				X Comesperma volubile			
				Dryandra armata				X Drosera (wet pink) - as WK 05			
				Tripterocarpus brunonis			✓	X Verticordia (yellow) - ditto			
				heptosp erub				serrata var ciliata			
				Dampiera alata							
MALLEES											
				GRASSES							
				Amphipogon turbin			✓				
				Neuracanthus alopec			✓				
SHRUBS											
Petrophile divarica			✓					SEDGES			
Hakea lehmann			✓					Caustis sp (JSP)			
Dry. ? prot			✓					Epidosperma (JSP) sp A2 Plot Is			
Nemcia			✓					Chahnia australis (JSP)			
Beaufortia eleg microcarpa			✓					Epidosperma (JSP) sp P1 (JSP)			
Astroloma epacridis			✓	tuberculata							
Isopogon villos			✓	HERBS							
Mellal (grey) ? s-brig			✓	Prostylis recurva			✓				
Beaufortia incana (JSP)			✓	Drosera macrantha			✓				
Melaleuca aff. cymosa			✓	Drosera pulchella			✓				
Pomadouras bilocul			✓	Chaenactis serra			✓				
Hibbertia punicea			✓	Prostylis vittata			✓				
Petrophile (dorra like Isop vill)			✓								
Hakea incrass/cand			✓								
Hemiglossa alvata			✓	D Microcyp capitata			✓				
Dryandra cynor			✓								
Callytrix ? s-brig sp sterile			✓								
Dampiera wellsiiana			✓								
Stylidium (coatesii/ expd)			✓								
Xanth. drummondii			✓								

TUT ANING NR

WK10

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TUTA SITE NUMBER ONEDATE TRIP 30-8-1997 RECORDERS N/G/L/MDATE TRIP 8-10-1999 RECORDERS NG/GK/AW

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° 33' 18.7 S Longitude 117° 20' 06.1 E Altitude
 GPS Accuracy
 Map Sheet HDDP 2.6

Photograph Name NG Number 10

Topographic Position (Circle the correct response)
 Upland Upper slope 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 Sand Depth to Rock deep. Colour yellow under grey.

Exposed Rock type % surface cover NONE size range

Litter twigs, lvs % surface cover 10-20 Depth (cm)

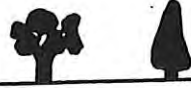
Bare Ground % surface cover 30-50

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

3. VEGETATION STRUCTURE AND COVER

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		
DOMINANT SPECIES			<i>Banksia attenu</i>		

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-20			20-30	2-10
DOMINANT SPECIES	<i>Dry. sessilis</i>			<i>Allocas. hum</i> <i>Leptosp. erub</i> <i>Aden. cygnor</i>	<i>Calytrix area</i> <i>Hibb. enxia</i>

GRASSES		HERBS	SEDGES	SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	< 2	< 2			
DOMINANT SPECIES		<i>Dios. zonaria</i>			<i>Curtis dionea</i> <i>Trichost. neesii</i>

4. VEGETATION CONDITION

Comments excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20x20

5. SPECIES PRESCENCE

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

SITE No TUTA 1

Record on Sheet

Date 30-8-1997

8-10-1997

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

same

TREES

Banksia attenuata

No FI ID

SHRUBS (cont.)

Hibbertia ~~angustifolia~~ ~~tertifolia~~

Bononia ramosa

Calytrix violacea

No FI ID

HERBS (cont.)

Ursinia anthem

Pterostylis ~~angustifolia~~ ~~DRYANDRA~~ (sub stans)

Thelymitra

Caladenia

Drosera macrantha

Mylottia tenuifolia

Caladenia flava

MALLEES

GRASSES

Newmachne alopec

Danthonia

Amphipogon turbin

SHRUBS

Dryandra sessilis

Allocas humilis

Stirlingia latifolia

Leptosiph erubesc

Baerkea preissiana

Petrophile brevifolia

Xanthorrh drumm

Bononia capitata ~~sp. capitata~~

Acac pulchella goadthi

Calytrix anaulata

Adenanth cyanus

Leucop conobryph

Melaleuca ~~et scabra~~ ~~(strobilata)~~

Calytrix ? aurea

Halkea ruscifolia

Opercul vagin

Paranya ~~fraseri~~

Eremala pauciflora

Astroloma serratif

Conospermum stoech

HERBS

Anagallis humilis

Stylidium repens

Drosera ~~pyramida~~ ~~parvula~~

Quintaria urvilletii

Patersonia occid

Thysanot paterson

Laxmannia ramosa

Drosera zonaria

Conostylis setigera

Trachymene pilosa

Drosera pallida

Hypochaeris glabra

Stylidium repens

SEDGES

Alexandria nitens

Caulostylis dioca

Sed. Leptodermis sp PI (USP)

Trichostylis neesii

Schoenus subarborescens

Leptodermis tenue

Dioscorea fascic

8-10-97

x Podolera angust

x Phyllanthum Uparadox

x Vulpia

x Centropogon pilosa

x Glennospora drumm

x Wartzia citrina

x Stipa macalpinii

x Stylidium schoenoides

x Centropogon pilosa

x Hygima barbata

subtrigine

TUTANING NR

WK11

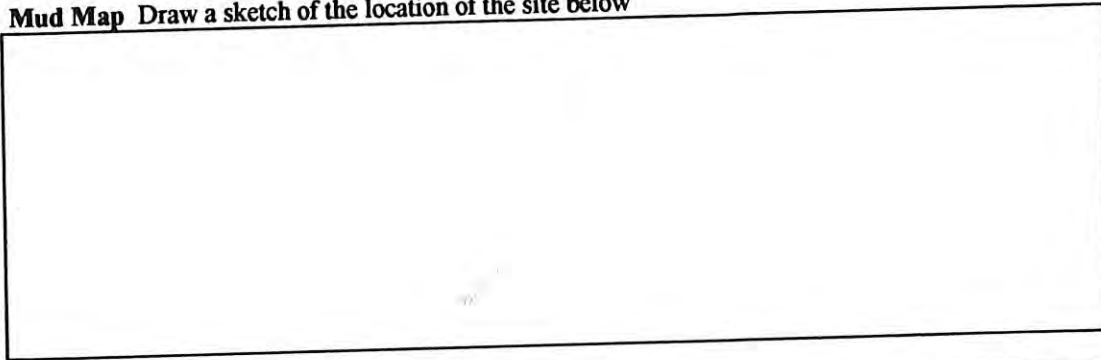
BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TU TA SITE NUMBER 4DATE TRIP 31-8-1997 RECORDERS M/N/L/GDATE TRIP 8-10-99 RECORDERS NG/GK/AW

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° 32' 04.4" S Longitude 117° 19' 09.7" E Altitude
 GPS Accuracy HDP 7.9
 Map Sheet

Photograph Name NG Number 18

Topographic Position (Circle the correct response)
 Upland Upper slope 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 sandy clay Depth to Rock 10-50 Colour grey-yellow

Exposed Rock type laterite % surface cover < 2 size range

Litter vs, twigs % surface cover > 90 Depth (cm) 2-10

Bare Ground % surface cover 10

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

3. VEGETATION STRUCTURE AND COVER

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			
DOMINANT SPECIES		<i>Euc. accendens</i>			

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10		10-30		2
DOMINANT SPECIES	<i>Pet. divaric</i>		<i>Gastr. porv</i> " <i>tricuspid</i>		<i>Hibb. enervia</i>

GRASSES		HERBS		SEDGES	
	over 0.5m			over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	< 2	< 2			2-10 -
DOMINANT SPECIES					<i>Lepidosperma</i>

4. VEGETATION CONDITION

Comments

excellent

20×20

5. SPECIES PRESCENCE

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

SITE No TUTA 4

Record on Sheet

Date 31-8-1997

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

Alloca. huegeliana (scattered)

8-10-1999

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. accendens -		✓						8/10/1999			
Allocas huegel -		✓						x Paranthura microphylla -			
								x Stipa elegantissima -			
								x Blechnospora drummondii -			
								x Agrostis preissii (VSP)			
MALLEES											
				GRASSES							
				Newarchne alopecurus -		✓					
				Stipa -							
				Danthonia -							
SHRUBS											
Gastrolobium parviflorum (VSP) ✓											
" tricuspid ✓								SEDGES			
Petrophile divarica ✓		✓		teretifolia (not enervia)				Lepidosperma tenue (VSP) ✓			
Hibbertia eximia (green) ✓ (VSP)								Gahnia australis ✓			
Dillwynia ? cinerasc ✓		✓		sp A Pod. flwr ✓				Lepidosperma brunneum ✓			
Melaleuca uncinata ✓		✓		HERBS							
Acacia pulchella goodbyi ✓		✓		Caladenia sacc ✓		✓					
Stylidium tenuicarpum ✓		✓		Trachymen pilosa ✓		✓					
Astroloma epactridis ✓		✓		Lomandra micrantha ✓		✓					
				Thysanot paterson ✓		✓					
				Pterostylis rufa sargentii ✓		✓					
				Caladenia flavida ✓		✓					
				Crassula colorata ✓		✓					
				Rhodanthe laevis ✓		✓					
				Millotia tenuiflora ✓		✓					
				Labelia tenuis ✓		✓					
				Podotrocha angustif ✓		✓					

WARDLING SPRING NR

WK12

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WARD SITE NUMBER FOURDATE TRIP 30-8-1997 RECORDERS M/N/L/GDATE TRIP 7-10-99 RECORDERS NG/KK/AW

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 50 18.5 S Longitude 117 21 36.2 E Altitude
GPS Accuracy HDOB 1.0 %
Map SheetPhotograph Name NG Number 6

Topographic Position

Upland
Upper slope
MidslopeLower slope
Valley
Washline

(Circle the correct response)

2. SITE DATA Circle the correct response

Slope flat gentle steep Aspect N NE E SE S SW W NWSurface Soil sandy clay Depth to Rock _____ Colour red-brownExposed Rock type NONE % surface cover _____ size range _____Litter lvs, twigs % surface cover 50/70 Depth (cm) 2-10Bare Ground % surface cover 30/50Adapted 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 (%)	30-70				
DOMINANT SPECIES	Euc. loxophl				
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	
				under 0.5m	
LIFE FORM					
COVER CLASS (%)	10-30	2-10		< 2	
DOMINANT SPECIES	Stipa trichop " elegant Elmh longif	Arthr. capill			

4. VEGETATION CONDITION

Comments

good - poor
 - surrounded by sea of weeds, sm residue in paddock
 (Romulea, grasses, Homeria)
 grazed in past
 dead sheep dumped

name if required
same

5. SPECIES PRESCENCE

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

SITE No WARD 4

Record on Sheet

Date 30-8-1997

7-110-1999

WK12

- 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. loxophleba ✓								Galium murale ✓			✓
								() Parietaria debilis ✓			✓
								7-10-1999			
								X Wurmbea dioica ✓			
MALLEES								X Ursinia anthem. ✓			
								X Aira caryophylla ✓			
								X Avena barbata ✓			
				GRASSES				(usp) X Crossula petuncularis decumbens			
				Stipa trichophylla (YES-7/10)	(usp)			X Arthropod curvipes ✓			
				" elegantiss ✓				X Briza minor ✓			
				Elcharta longif ✓							
SHRUBS				Bromus rubens ✓	(usp)						
Acacia acuminata ✓				Newachne alopec ✓				SEDGES			
				HERBS							
				Anagallis arven ✓			✓				
				Oxalis prenn ✓			✓				
				Arthropod capillipes ✓			✓				
				Crassula colorata ✓			✓	var acuminata (usp) ✓			
				Romulea rosea ✓			✓				
				Calandrinia calyptata (usp) ✓			✓				
				Lagenit hueg ✓			✓				
				() Hypochaeris glabr ✓			✓				
				Phyllanthum paradox ✓			✓				
				Stylandra glauca ✓			✓				
				Ferastium galom ✓			✓	stellaria media (usp) ✓			
				Calotis hispida ✓			✓				
				Rhodanthe concumb (usp) ✓			✓				
				polyccephala ✓							

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA HARRISMITH

SITE NUMBER FOUR

DATE TRIP 28-8-1997

RECORDERS N/L/M/G

DATE TRIP 13-10-1999

RECORDERS NG/GK/AW

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 54 22.5 S **Longitude** 117 53 34.6 E **Altitude**

GPS

Accuracy

Map Sheet

H008 2.3

AMG
583505
6358740

Photograph

Name NG

Number 37

Topographic Position

(Circle the correct response)

Upland

Upper slope

Midslope

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 deep sand

Depth to Rock deep

Colour bram or yellow

Exposed Rock type

% surface cover NONE

size range

Litter twigs / vs

% surface cover 30/70

Depth (cm) 2-10

Bare Ground

% surface cover 10/30

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

3. VEGETATION STRUCTURE AND COVER

Record	Applicant	Cover	Class
1	...	...	...
2	...	...	...
3	...	...	...
4	...	...	...
5	...	...	...
6	...	...	...
7	...	...	...
8	...	...	...
9	...	...	...
10	...	...	...
11	...	...	...
12	...	...	...
13	...	...	...
14	...	...	...
15	...	...	...
16	...	...	...
17	...	...	...
18	...	...	...
19	...	...	...
20	...	...	...
21	...	...	...
22	...	...	...
23	...	...	...
24	...	...	...
25	...	...	...
26	...	...	...
27	...	...	...
28	...	...	...
29	...	...	...
30	...	...	...
31	...	...	...
32	...	...	...
33	...	...	...
34	...	...	...
35	...	...	...
36	...	...	...
37	...	...	...
38	...	...	...
39	...	...	...
40	...	...	...
41	...	...	...
42	...	...	...
43	...	...	...
44	...	...	...
45	...	...	...
46	...	...	...
47	...	...	...
48	...	...	...
49	...	...	...
50	...	...	...
51	...	...	...
52	...	...	...
53	...	...	...
54	...	...	...
55	...	...	...
56	...	...	...
57	...	...	...
58	...	...	...
59	...	...	...
60	...	...	...
61	...	...	...
62	...	...	...
63	...	...	...
64	...	...	...
65	...	...	...
66	...	...	...
67	...	...	...
68	...	...	...
69	...	...	...
70	...	...	...
71	...	...	...
72	...	...	...
73	...	...	...
74	...	...	...
75	...	...	...
76	...	...	...
77	...	...	...
78	...	...	...
79	...	...	...
80	...	...	...
81	...	...	...
82	...	...	...
83	...	...	...
84	...	...	...
85	...	...	...
86	...	...	...
87	...	...	...
88	...	...	...
89	...	...	...
90	...	...	...
91	...	...	...
92	...	...	...
93	...	...	...
94	...	...	...
95	...	...	...
96	...	...	...
97	...	...	...
98	...	...	...
99	...	...	...
100	...	...	...

2-10%

10-30%

30 - 70%

over 70%

TREES			MALLEES		
over 15m	5-15m	under 5m	over 8m	under 8m	
LIFE FORM					 30m 10m
COVER CLASS (%)					
DOMINANT SPECIES					

SHRUBS				SHRUBS	
over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m	
LIFE FORM					 2m 1m
COVER CLASS (%)		30/50		10-30	
DOMINANT SPECIES		Bank. baueri Erem. paucif Pet. cericif		Andrysonia Dryandra nivea Banksia violac	

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					1m
COVER CLASS (%)	< 2	2/10			10/20 -
DOMINANT SPECIES	Amphipogon	Lypranthus			Loxocarya -

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No HARRISMITH 4

Date 28-8-1997

13 - 10-99

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

20x20
ditto

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
								13/10/1999			
								X ~~Toxocarya~~ Kulinia edulis (vss)			
								X Stipa macalpineri			
								X Levenhookia paucifl			
								X ~~Drosera~~ ? pulchella ? pyramidalis			
								X Andersonia			
MALLEES								X Crassula sieberiana			
								X Waitzia acumin			
				GRASSES				X Rhodanthe laevis			
				Amphipogon turbinatus				X Pteranthera microphylla			
								X Baeckea preissiana			
SHRUBS								X Trachymene pilosa			
Banksia naveri			✓					X Dampiera linearis			
" sphaerocarpa			✓					SEDGES			
" violacea			✓					Carstis dioica			
Dryandra nivea slophorum			✓					X Schoenus Kulinia edulis (vss)			
Petrophile set aricifol			✓	cyath. forma.				Loxocarya parthenica			
Leptospermum erubescens			✓					X Tetradlea octandra			
Exematelea paniciflora			✓	HERBS				X Schoenus curvifolius			
Melaleuca ~~strobilata~~ subtrigona			✓	Pyrorchis nigricans							
Hakea glabellif			✓	Drosera Uzonaria				X Levenhookia stipitata 13/10			
Dryandra cynaroides			✓	X Conostylis setigera (vss)				Crassula calovita var calovita			
Leucop conosteph			✓	Trachymene pilosa				X Schoenus brevifolius (vss)			
Dampiera ? ~~terrestris~~ / evenulig			✓	Stylid repens							
Verticordia (= pink w K96)			✓	signis ~~triosera~~ macrantha							
Emmacea paniciflora			✓	X Thelymitra							
				Thys pat/mang							
28/8				X Millotia (tenuiflora) 13/10							
X Andersonia ~~macrantha~~ (vss)			✓	Leomella fimbri							
				X Podoth angustif 13/10							
				Drosera							
				Caladenia flava							

WK 14

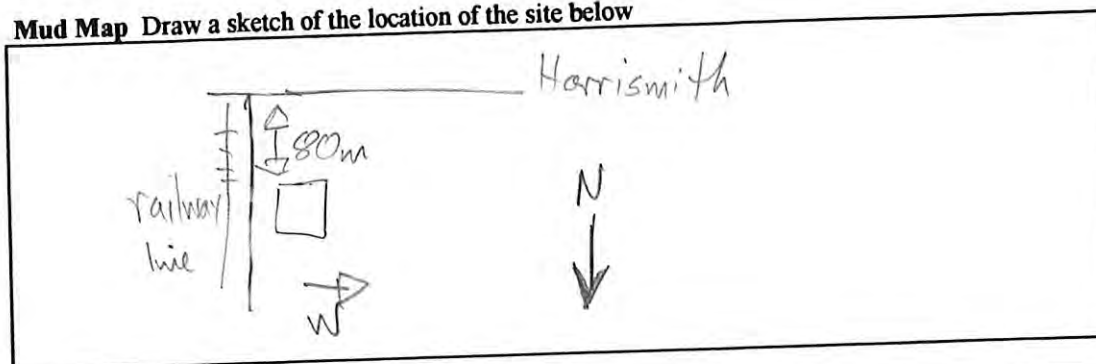
BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA HARRISMITH SITE NUMBER ONEDATE TRIP 28-8-1997 RECORDERS L/M/N/GDATE TRIP 28 13/10/99 RECORDERS NG/GK/AN

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 55 58.4 S Longitude 117 51 49.1 E Altitude 580740
 GPS Accuracy 1st ±100m
 Map Sheet 6355809

Photograph

Name NG

Number

Topographic Position

Upland

Upper slope

Midslope

Lower slope

Valley

Washline

(Circle the correct response)

2. SITE DATA Circle the correct response

Slope flat gentle steep Aspect N NE E SE S SW W NWSurface Soil 100m sand Depth to Rock 2-50 Colour brownExposed Rock type laterite % surface cover 10/20 size range 5-20Litter +wigs % surface cover 20/30 Depth (cm) 2-5cmBare Ground % surface cover 20/30

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

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 (%)		20/30		10/30	10/30
DOMINANT SPECIES		<i>Bast. spinos</i> <i>Hak. lehman</i> <i>Mrl. pungens</i>		<i>Isop. box</i> <i>Jry ornata</i>	<i>Xanthor</i> <i>Logania</i>

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		22			2-10
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No HARRI I

Date 28-8-1947

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

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]

~~Sphaerocarpa (12/10)~~

WK15

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA HARRISMITH SITE NUMBER THREE

DATE TRIP 28-8-1997 RECORDERS M/L/N/G

DATE TRIP 13-10-1999 RECORDERS NG/GK/AW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location Harrismith Water Reserve

Geographic Location Latitude 32 54 15.2 S Longitude 117 53 25.6 E Altitude
GPS Accuracy HDOP 2.6
Map Sheet

AMG
583273
6358967

Photograph Name NG Number

Topographic Position
Upland
Upper slope
Midslope

Lower slope
Valley
Washline

(Circle the correct response)

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 Colour red-brown

Exposed Rock type % surface cover NONE size range

Litter bark, twigs % surface cover 50/70 Depth (cm) 2-5

Bare Ground % surface cover 10-20

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				
DOMINANT SPECIES	<i>Euc. melanox</i> <i>Euc. salmone</i>				

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)				2-10	
DOMINANT SPECIES				<i>Olearia muhleni</i>	

GRASSES		HERBS		SEDGES	
	over 0.5m	under 0.5m	over 0.5m	under 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	c2	L2			
DOMINANT SPECIES	<i>Stipa elegant</i>	<i>Lepid. rotund</i>			

4. VEGETATION CONDITION

Comments

very good - excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No HARRISMITH 3

Date 28-8-1997

13-10-1999

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

WK15

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. melanoxyl ✓		✓						13/10/1999			
Euc. salmonoph ✓		✓						x Mair-eana sp (stake) ✓			
								x Danthonia ✓			
MALLEES											
				GRASSES							
				Stipa elegantissima ✓		✓					
				" trichophylla ✓		✓					
SHRUBS				Cat Vulpia myuros ✓		✓					
Acacia erinacea (slat) ✓		✓						SEDGES			
Olearia muelleri ✓		✓									
Templetonia sulcata ✓		✓									
				HERBS							
				Lepidium rotundum ✓		✓		(USP)			
				Pterostylis (aff) mutica ✓							
				Calandrinia calyptrata ✓							
				Lomandra effusa (ANS) ✓							
				Cotula bipinn (on track) ✓							
				ANT							

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA BABBE BILLY SOAK SITE NUMBER ONEDATE TRIP 28-8-1997 RECORDERS L/M/N/GDATE TRIP 12-10-99 RECORDERS NG/GK/AW

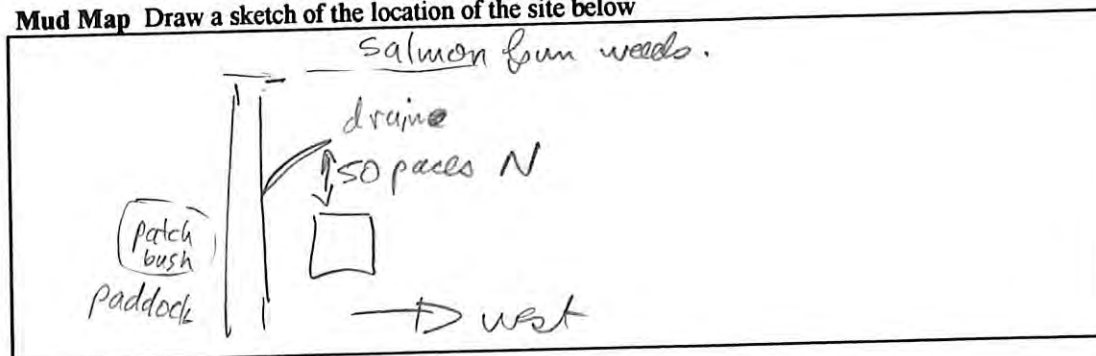
DATE TRIP _____ RECORDERS _____

WK13

wk16

1. LOCATION of the QUADRAT

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



Road Location

BABBE BILLY SOAK

Geographic Location

Latitude 32 54 48.8

GPS

Map Sheet

S Longitude 117 48 16.7 E Altitude

Accuracy

HDO P 6.2

AWG

575241

6357997

Photograph

Name

NG

Number

38

Topographic Position

Upland

Upper slope

Midslope

Lower slope

Valley

Washline

(Circle the correct response)

Flat

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

Colour

brown

Exposed Rock

type

% surface cover

NONE

size range

Litter Logs / bark

% surface cover

10-30

Depth (cm)

2-20

Bare Ground

% surface cover)

10-30

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

3. VEGETATION STRUCTURE AND COVER

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

record	appropriate line item, cover class	2-10%	10-30%	30 - 70%	over 70%
Cover Class					

TREES				MALLEES	
	over 15m	8-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	10-30	10-30			
DOMINANT SPECIES	<i>Euc. melanoxyl</i> <i>longicorn</i>	<i>Euc. loxoph</i> <i>Ac. acumin</i>			

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			< 2		
DOMINANT SPECIES			<i>Olearia axill</i> <i>var eremicola</i>		

GRASSES		HERBS		SEDGES	
	over 0.5m		under 0.5m		
LIFE FORM					
COVER CLASS (%)	2-10				2-10-30
DOMINANT SPECIES	<i>Stipa trichophyll</i>	<i>Lom. effusa</i>			<i>Desmod. aspera</i>

4. VEGETATION CONDITION

Comments

very good

20120

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 Babbechilly I

Date 24-8-1997

12-10-1999

Record on Sheet WK16

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

same

pilitera

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. longicornis				Blennospora drumm				Hypoch. glabra			
" toxophleba				Calandrinia granulifera				Hydrocotyle rugulosa			
Acacia acuminata				Trachymene cyanopt				Caldenia hirta rosea			
				Asctlothera calceolula				Angianthus pusilla			
				rhodantha laevis				Carsia (latifolia) microcalyx			
				hagenit hura				Waitzia acumin var acun			
				stypandra glauco				Podoticea angust			
MALLEES				Schizanthus nanus				Palom miscanthus			
				GRASSES				Calandrinia corrigiol			
				Stipa triophylla flaves (usp)				"			
				Neurachne alopec				Wurmbea tenella			
				Briza max				Quinetia urvill			
SHRUBS				Amphipogon turbin				Sowerbaea laxif			
Olearia axillaris var crenicula				Vulpia myuros				SEDGES			
(ADJ) IN				Stipa elegantiss				Desmod. asper			
X Dampiera linearis	12/10			Pentstemon aroid				Lepidosperma cf ang.			
Astroloma serratif											
X Ptilotus manglesii	12/10										
Opercul vag				HERBS							
				Ursinia anthem				X Waitzia citrina			
X Dampiera flava subsp	12/10			Calandrinia calyphata				X Danthonia			
(usp)				Artrop capill				X Lolium rigidum			
				Podolepis lessonii				X Helicrysum leucopsid			
				" canescens				X Lobellia tenuifl			
				Millotia tenuifolia var tenuif				X Lomandra effusa			
				Brachycome pusilla				X Trifolium tomentos			
				Thysanotus pat				X Wahlenbergia preissii			
				Waitzia nitida				X Eriocharta longiflora			
				Daisy - Helidry in leucopsid				X Gunandris satifolia			
				Brassica toment				X Alva coryophylla			
				Trachymene pilosa				X Crassula colorata			
				Crassula colorata				X Hydrocotyle pilifera			

Lobelia sp 2/8

Islepis sp (sterile - annual)

NONALLING N.R.

WK17

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA NONA SITE NUMBER ONEDATE TRIP 30-8-1997 RECORDERS L/M/G/NDATE TRIP 12-10-1999 RECORDERS NG/KGK/AN

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° 32' 32.6 S Longitude 117° 37' 20.8 E Altitude 558445
 GPS Accuracy HDOP 4.6
 Map Sheet

ANG

558445
6399259

Photograph Name NG Number 7

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

Flat by Lake

2. SITE DATA Circle the correct response

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

Surface Soil clay Depth to Rock ? Colour grey

Exposed Rock type _____ % surface cover NONE size range _____

Litter Dead grass % surface cover 2 (70) Depth (cm) _____

Bare Ground % surface cover 10 - 70

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

3. VEGETATION STRUCTURE AND COVER

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

SHRUBS				SHRUBS	
	over 2 m	2 m - 1.5 m	1.5 - 1 m	1 - 0.5 m	under 0.5 m
LIFE FORM					
COVER CLASS (%)		10-30			10-30
DOMINANT SPECIES		M-el. laterif M-el. ? vim			Halos. halocn

GRASSES		HERBS	SEDGES	SEDGES	
				over 0.5 m	under 0.5 m
LIFE FORM					
COVER CLASS (%)	30 or 70				
DOMINANT SPECIES	Hordeum mar				

4. VEGETATION CONDITION

Comments

poor
? grazed in past
slow grassy weed invasion

5. SPECIES PRESCENCE

SITE No NANA T

Date 30-8-1997

12-10-99

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

WK 17

TREES				SHRUBS (cont.)				HERBS (cont.)							
No	FI	ID		No	FI	ID		No	FI	ID					
								12-10-1999							
MALLEES				GRASSES				✓ Amphibromus vickeryi (VSP)							
								X Crassula natans ✓							
								X Tritolium toment							
								X Sonchus oleraceus							
								X Arctotheca calend							
				✓ X Eleocharis pusilla (VSP)											
SHRUBS				Lolium rigidum				SEDGES							
✓ Melaleuca lateriflora				✓ Hordeum marinum											
" viminalis				Lolium multiflorum rigidum											
Halosarc indica ssp biden s				acuminata ssp acumin											
Enchylaena toment															
				HERBS											
✓ Cotula bipinnata															

NONALLING N.R.

WK18

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA NONA SITE NUMBER 2DATE TRIP 30-8-1997 RECORDERS L/M/N/GDATE TRIP 12-10-99 RECORDERS GK/NG/AW

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° 32' 46.1" S Longitude 117° 37' 35.5" E Altitude AMG 558826
 GPS Accuracy HDOP 4.7
 Map Sheet 6398841

Photograph Name NG Number 8

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

2. SITE DATA Circle the correct response

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

Surface Soil clay Depth to Rock deep Colour grey

Exposed Rock type _____ % surface cover NONE size range _____

Litter dead grass % surface cover 20-90 Depth (cm) 2-10

Bare Ground % surface cover 10-30

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

3. VEGETATION STRUCTURE AND COVER

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

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 (%)	2-10	2-10			
DOMINANT SPECIES	Euc. 10x0	Cas. obesa			
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	< 2 (increasing)				16-30
DOMINANT SPECIES	Mel. laevisiflora				Halosarcia
GRASSES		HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)	30-70			10-30	
DOMINANT SPECIES	Lolium Bromus			Yabbia trifida	

4. VEGETATION CONDITION

Comments

becoming Salt affected
grazed in past

grassy weeds invaded lower layer

20720

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

SPECIES PRESCENCE
SITE No 10NA 212
Date 30-8-1997
12-10-1999

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

Acacia acuminata
(mostly dead)

WK18

TREES				SHRUBS (cont.)				HERBS (cont.)				No	FI	ID
Euc. loxophleba		✓												
Cas lobosa		✓												
			</											

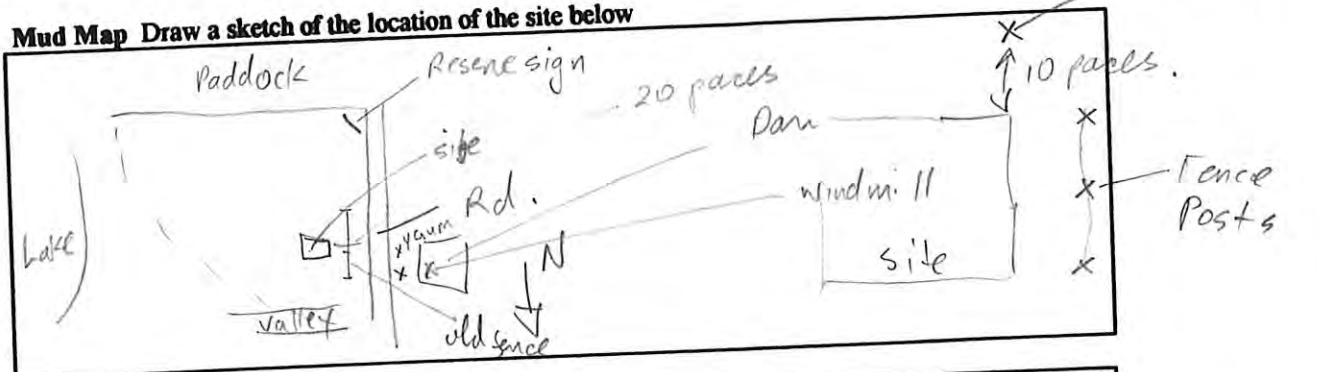
WK19

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA NONA SITE NUMBER THREE
 DATE TRIP 30-8-1997 RECORDERS G/L/M/N
 DATE TRIP 12-10-1999 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 33 30.5 S Longitude 117° 37' 56.3 E Altitude 559361
 GPS Accuracy HDOP 4.4
 Map Sheet 6397470

Photograph Name NG Number 9

Topographic Position (Circle the correct response)
 Upland Upper slope Lower slope hill over Lake
 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 clay - loam Depth to Rock 30cm Colour brown
 Exposed Rock type laterite % surface cover scattered size range 2-10
 Litter twigs, lvs, stems % surface cover 50-70 Depth (cm) 5-10
 Bare Ground % surface cover 10-20

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

3. VEGETATION STRUCTURE AND COVER

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				
DOMINANT SPECIES	<i>Euc. salm</i>				

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			2		2
DOMINANT SPECIES			<i>Ac. microbotrys</i>		<i>Acacia erinac</i> <i>Templetonia sulc</i>

GRASSES		HERBS		SEDGES	
	over 0.5m		under 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	30-70	2			
DOMINANT SPECIES	<i>stipa</i>	<i>Oxalis psen</i>			

4. VEGETATION CONDITION

Comments

very good
cut over in past
regenerating

20×20

5. SPECIES PRESCENCE

name if required
ore Eur. wandoo

Record on Sheet

- Column 1 plant name

- Column 2 plant number

• Column 3 flowering time- TICK if species flowering

- **Column 4** identification check

Euc. loxophleb -

• Column 4 Identification check														
TREES		No	FI	ID	SHRUBS (cont.)		No	FI	ID	HERBS (cont.)		No	FI	ID
Euc. salmonoph ✓			✓							Crassula colorata ✓				
										11/10/1999				
										x Bromus madritense ✓				
										x Avena ✓				
MALLEES										x Trachymene cyanopt ✓				
										x Ursinia anthem ✓				
					GRASSES					x Trifolium tomentosum ✓				
				✓	Stipa elegantiss (usp) ✓					x Brassica tournefortii ✓				
				✓	" " - Seabra pubervula ✓					x Arcotaea calandula ✓				
					Lolium perenne/rigid ✓					x Hordcum leporinum ✓				
SHRUBS					Neurachne alopec ✓					x Calotis hispidula ✓				
Acacia erinacea ✓			✓		Danthonia ✓					SEDGES				
" microbotrya ✓			✓											
Enchybena toment ✓			✓											
Comelasma integra ✓			✓											
Sclerodena diacantha ✓			✓											
Templetonia sulcata ✓			✓											
					HERBS									
Atriplex semibaccata ✓					Oxalis perennans ✓					revoluta (11/10) ✓				
					Dianella ✓									
					Lomandra effusa ✓									
					Thys Paterson ✓									
				✓	Calandrinia calyptrata (usp) ✓					eremaea ✓				
				✓	Lepidium rotund ✓									
					Lalpenikra hueg ✓									
					Arctthrop capillipes ✓									
				✓	Thelymitra aff macrophylla (usp) ✓									
					Arctthrop curvipes ✓									
					Hypoxis glab ✓									
					Trachy pilosa ✓									

Malandrin a calypso (VSP) (odd seed shape)

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TAAL SITE NUMER TWO
 DATE TRIP 29-8-1997 RECORDERS L/M/G/N
 DATE TRIP 12-10-99 RECORDERS GK/NG/AW
 DATE TRIP _____ RECORDERS _____

WK20

1. LOCATION of the QUADRAT

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

Road Location

Geographic Location Latitude 32 58 58.8 S Longitude 117 32 15.9 E Altitude
 GPS Accuracy
 Map Sheet HDP 4.2

ANG
 550244
 6350457

Photograph Name NG Number 9

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

2. SITE DATA Circle the correct response

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

Surface Soil sandy-clay Depth to Rock deep Colour brown

Exposed Rock type _____ % surface cover NONE size range _____

Litter trunks logs, bark % surface cover 10-30 Depth (cm) 2-20

Bare Ground % surface cover 70-90

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

3. VEGETATION STRUCTURE AND COVER

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	10-30	2		
DOMINANT SPECIES	<i>Euc. Salween</i>	<i>Euc. loxoph</i>	<i>Ac. acum</i>		

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	under 0.5m	
LIFE FORM	 	  	  	  		
COVER CLASS (%)	2-10	30-70			<2	
DOMINANT SPECIES	<i>Stipa eleg</i>	mixed				

4. VEGETATION CONDITION

Comments

grozed in past

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 TAALB IZ

Record on Sheet

Date 29-8-1997

12-10-1999

WK 20

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

same off link -

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. salmonoph.		✓					✓	Plantago drumm			✓
Euc. toxophleba		✓						Erodium cygn			
Ac. acuminata		✓						Trachym pilosa			
								Hypoch glabra			✓
								Hydrocotyle? pil			✓
								Plilotus manglesii			✓
								Borva laciniat			✓
MALLEES								Senecio gloss			✓
				GRASSES				Waitzia lacumin			✓
				Stipa elegantissim				Thysanotus fas foot 4)			✓
				Eriich longiflora				Podotheca angust			✓
				Briz max			✓	Rhodanthe manglesii			✓
SHRUBS				Aleurach alopec			✓	Arctoth calced			✓
Hakea preissii		✓		Stipa trichophylla			✓	SEDGES			
Rhagodia drumm		✓		X Bromus — rubens			Vsp 12/10	Blennospora drumm			✓
Sclerolaema diacanth		✓		Vulpia myuros			✓	Lomandra misrantha			✓
Enchylaema toment		✓		Stipa (large)			✓	Pelargonium haussae			✓
				Rostaria pumila				Drosera bulbosa			✓
12-10-99				HERBS				Thys pat			
X Aira coryophyllea				Crassula colorata var			✓	Paren tucella latif			✓
X Prasophyllum macrostach				Lawrenciella davenantii rosea			✓	Quinetia uvill			
X Trachymene cyanop				Ursinia anthem			✓	Wurmbea tenella			
X Crassula				Lepidium rotundum polyfl			✓	Drosera menz			
X Schoenus				Wahlenb preissii			✓	Lobelia tenuis			✓
X Arena barbata				Wahlenbergia preissii			✓	Trioloch stoward			
X Briza minor				Bulbine seminibarb			✓	Pterostylis alb nana			
X Stenopetalum spharoc sa				Lomandra effusa			✓	Brachycome ? herb b			
X Eremophyllum ramosum				Caesia misrantha			✓				
X Isoplepis marginata				Podolepis lessonii			✓	Podolopsis tepleri			29/8
X Calandrinia calyptala				Triolochin calcitrap sp			✓				
				Calandrinia exserta sp (smitted)			✓				
				Artrop capillip			✓				

TOOL I

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TOOLIBIN (TOWNSITE) SITE NUMBER ONE

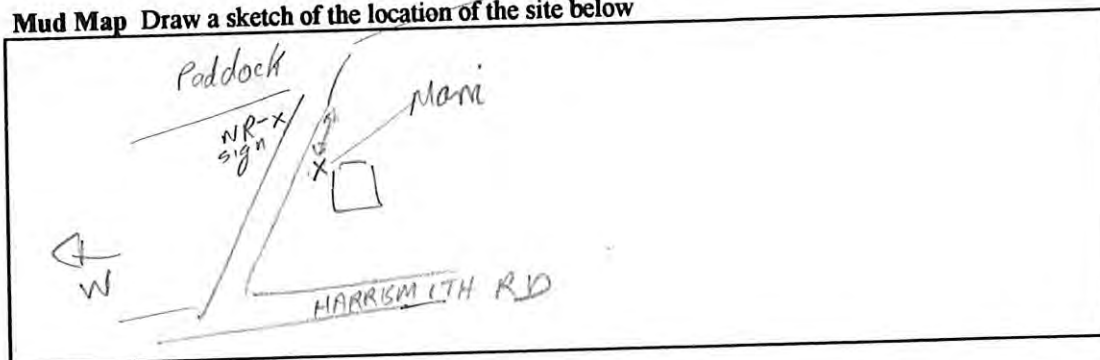
WK 21

DATE TRIP 29/8/1997 RECORDERS G/K/M/VDATE TRIP 12-10-99 RECORDERS NG/GK/AW

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 56 27.7 S Longitude 117 37 23.0 E Altitude 558293
 GPS Accuracy HDP 4.9
 Map Sheet 6355066

AMG

Photograph Name NG Number 3

Topographic Position

Upland

Upper slope

Midslope

Lower slope

Valley

Washline

(Circle the correct response)

2. SITE DATA Circle the correct response

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

Surface Soil sand Depth to Rock deep Colour grey

Exposed Rock type _____ % surface cover NONE size range _____

Litter lvs, twigs % surface cover 70-90 Depth (cm) 2-70

Bare Ground _____ % surface cover 10-20

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

3. VEGETATION STRUCTURE AND COVER

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 (%)	L2				
DOMINANT SPECIES	<i>Euc. calophylla</i>				

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			2-10		20-30
DOMINANT SPECIES			<i>Leptosp. erub.</i> (<i>Erem. paucifl.</i>)		<i>Calytrix</i>

GRASSES		HERBS		SEDGES		SEDGES	
	over 0.5m			over 0.5m		under 0.5m	
LIFE FORM							
COVER CLASS (%)	20-30					30-70	
DOMINANT SPECIES	<i>Stipa</i> <i>Neurachne</i> <i>Amphipogon</i>					<i>Caustis</i>	

4. VEGETATION CONDITION

Comments

very good, grazed in past

20 + 20

5. SPECIES PRESCENCE

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

SITE No Toolibin T

Record on Sheet

Date 29-8-1997

12-10-99

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

name if required
Allocas huegeliana

WK 21

[illegible]

x Goodenia (strife)

- * *Centropogon pilosa*
- * *Lobelia tatarica*
- * *Crassula pedicellosa*

TOOL 2

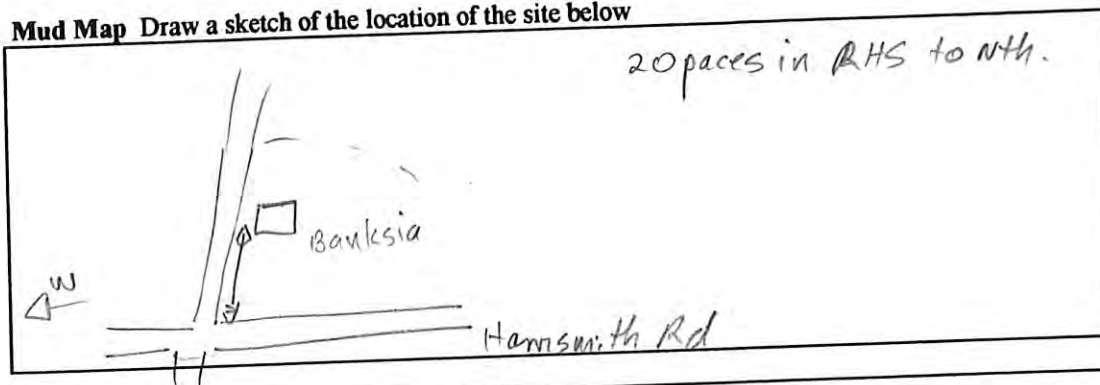
BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Toolibin (townsite) SITE NUMBER TWODATE TRIP 29-8-1997 RECORDERS L/N/M/9DATE TRIP 12-10-99 RECORDERS GK/NG/AW

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 56 32.2 S Longitude 117 37 22.0 E Altitude 558216
 GPS Accuracy HDOP 2.6
 Map Sheet 6354927

Photograph

Name NGNumber 4

Topographic Position

Upland

Upper slope

Midslope

Lower slope

Valley

Washline

(Circle the correct response)

2. SITE DATA Circle the correct response

Slope flat gentle steepAspect N NE E SE S SW W NWSurface Soil sandDepth to Rock deepColour grey

Exposed Rock type

% surface cover

NONE

size range

Litter

NS, twigs

% surface cover

30-50

Depth (cm)

2-5

Bare Ground

% surface cover)

30-50

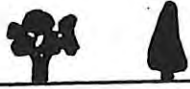
Adapted from 'Bushland Plant Survey' written by B. Keighery (1994) and published by Wildflower Society of WA (Inc). PO Box 64
 Nedlands WA 6008

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

3. VEGETATION STRUCTURE AND COVER

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 (%)			20-30		
DOMINANT SPECIES			<i>Bank. attenuata</i> " <i>prionotes</i>		

SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)				2	2-10
DOMINANT SPECIES				<i>Erem. pauc</i>	<i>Calytrix</i>

GRASSES		HERBS		SEDGES		
	over 0.5m	under 0.5m	over 0.5m	under 0.5m	under 0.5m	
LIFE FORM						
COVER CLASS (%)	2-10	10-30			2-10	
DOMINANT SPECIES	<i>stipa</i>	<i>Hypoch. glab</i> <i>ursinia</i>			<i>Lygimia</i> ~~Acrob~~	

4. VEGETATION CONDITION

Comments

regen after past severe disturbance
Fire / grazing now rabbits

20x20

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

same

WK 22

TREES	No.	FI	ID	SHRUBS (cont.)	No.	FI	ID	HERBS (cont.)	No.	FI	ID
Banksia attenuata ✓		✓						Caladenia discoides ✓		✓	
B " prionotes ✓		✓						Trachymene villosa ✓		✓	
								Lewyhookia pusilla ✓			
MALLEES			✓	Triodia longipalea ✓ vsp							
				GRASSES							
				Stipa (lgr) (as WKZ) ✓				12/10			
				" elegantissima ✓ vsp							
SHRUBS			✓	Amphipogon turbinatus ✓				Mesomelaena preissii ✓			
Calyptrix leschenaultii ✓ (vsp)				(Echrs longifl) ✓				SEDGES			
Eremophila pauciflora (yes) ✓ n/10				Neracne alopecuro ✓				Gynura barbata ✓		✓	
Dampiera linearis ✓			✓	Vulpia myurus ✓				Oepidob chart ✓		✓	
Leptosiph. erubescens ✓			✓	Stipa Macalpine ✓ yes 12/10				12/10/99			
Calyptrix angust ✓			✓					X Airca caryophyllae ✓			
				HERBS				X Podothece angustif ✓			
				Ursinia anth ✓		✓		X Ehrharta calycina ✓			
				Hypoch glabra ✓		✓		X Hibbertia subvagin ✓			
				Podothece gnaph ✓		✓		X Lobelia tenuior ✓			
				Leporella fimb ✓		✓		X Levenhook stipitata ✓			
				Stylidium repens ✓		✓		X Levenhook pusilla ✓			
				Paterson locoid ✓				Pterotrachea (ADJ) ✓			
				Dianella brevicaul ✓		✓		Bridal Creeper ("") ✓			
				Wahlenbergia Preuss ✓				leichenautia pulvinaris (ADJ) ✓			
				Drosera Donnic ✓		✓					
				Rhyssalis maricans ✓		✓		X Centrolepis pilosa ✓			
				Callandrinia grandifl ✓		✓		X Pentastichistis diroid ✓			
				Anigoz. humilis ✓		✓		X Grassula colorata ✓			
				Paranthes microphyll ✓		✓					

12/10

- x *Centropus aff. cephaloformis* (VSP)
- x *Conospermum strobilaceum*
- x

TOOL 3

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TOOLIBIN (N.R.) SITE NUMBER THREE

WK23

DATE TRIP 29-8-1997 RECORDERS M/L/G/NDATE TRIP 12-10-99 RECORDERS NG/GK/AW

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 54 54.9 S Longitude 117 37 09.3 E Altitude 557904
 GPS Accuracy HDP 2.1
 Map Sheet

AMG
 557904
 6357926

Photograph Name NG Number 5

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 sand Depth to Rock deep Colour yellow

Exposed Rock type _____ % surface cover NONE size range _____

Litter / Vs, stems % surface cover 70-90 Depth (cm) 2-7cm

Bare Ground % surface cover) 10-30

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

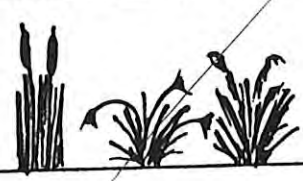
2 Fauna
 site

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%

LIFE FORM	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
					
COVER CLASS (%)		2-10	10-30		
DOMINANT SPECIES		Alloc. hueg	Bank. prion Ac. acum		
LIFE FORM	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
					
COVER CLASS (%)					10-30
DOMINANT SPECIES					Opoc. vag
LIFE FORM	GRASSES	HERBS	SEDGES	over 0.5m	
					under 0.5m
					
COVER CLASS (%)	10-30	10-30			30-70
DOMINANT SPECIES	Neracchne	Mixed Rhod. darenp			Lepidob. chaet

4. VEGETATION CONDITION

Comments

very good - excellent

20720

same

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

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

50m

Record on Sheet

WK 23

Date 21-8-1999
12-10-1999

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

Date				WK 23			
12-10-1999							
TREES				No	FI	ID	
Allocas hueg							
Ac. acum							
Bank. prionst							
" attenuata							
MALLEES				No	FI	ID	
SHRUBS				No	FI	ID	
Opercul. vaginata							
GRASSES				No	FI	ID	
Triticum aestivum							
Stipa elegant							
Newbachne alopec							
Stipa							
Danthonia							
Amphipogon turb							
HERBS				No	FI	ID	
Lomand collina							
Trachym pilosa							
Ursinia anthemord							
Caladenia dilatata-falcata							
Poranthura microphyll							
Ekrostylis villatata sanguin							
Thys paterson							
Walitz acumin							
Hypochaeris glabra							
Dianella revoluta							
Angianthus tenellus							
Millotia tenuif							
HERBS (cont.)				No	FI	ID	
Caladenia flava							
Podotroca angustif							
Chaemasc spiralis							
Rhodanthe laevis							
Wahlenb. preissii							
Olenofora densa 19/8							
SEDGES				No	FI	ID	
X Lepidobolus preissianus							
Mesomelaena stygia preissii-							
12/10/99							
x Arctotheca calendula							
x Lobelia tenuior							
x Anagallis arvens (blue)							
x Drosera macrantha							
x Blennospora drumm							
x Drosera zonaria							
x Vulpia myuros							
x Aira caryophyllaea							
x Parentucellia latifolia							

TOOL 4

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TOOLIBIN (NR) SITE NUMBER FOUR
 DATE TRIP 29-8-1997 RECORDERS L/M/N/G
 DATE TRIP 12-10-99 RECORDERS GK/NG/AW
 DATE TRIP _____ RECORDERS _____

WK24

1. LOCATION of the QUADRAT

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

Road Location

Geographic Location Latitude 32 55 02.0 S Longitude 117 36 55.7 E Altitude
 GPS Map Sheet Accuracy HDOOP 2.7

AMG

557549
6357709

Photograph Name NG Number 6

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

2. SITE DATA Circle the correct response

Lunette on E. side of Lake

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

Surface Soil sandy clay Depth to Rock deep Colour yellow-brown

Exposed Rock type % surface cover NONE size range

Litter logs, lvs % surface cover 10-30 Depth (cm) 2cm

Bare Ground % surface cover 50-70 (w/out herbs)

3. VEGETATION STRUCTURE AND COVER

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

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 (%)	1		10-30		
DOMINANT SPECIES	<i>Euc. loxoph</i>		<i>Ac. acumin</i>		
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	
LIFE FORM					
COVER CLASS (%)	<1	70-90		<1	
DOMINANT SPECIES		mixed			

4. VEGETATION CONDITION

Comments

grazed in past / rabbits now
patches severe weed invasion

20×20

5. SPECIES PRESCENCE

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

SITE No TOOL 4

Record on Sheet

- Column 1 plant name

- Column 2 plant number

• Column 3 flowering time- TICK if species flowering

- **Column 4** **identification** **check**

Date 29-8-1997

WK 24

12-10-99

Allocas huegel-

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. toxophleba ✓		✓						Podotrocha angust ✓			
Acacia acuminat ✓		✓						Crassula color verticillata ✓			
								Hydrocotyle pilosa var glabra ✓ (vsp)			
								Calandrinia granulif ✓			
								Waitzia laetum serotina ✓			
								Thysanotus (rectantherus) ✓ 12/10			
MALLEES								" patersonii ✓			
								Trachymene pilosa ✓			
								Millotha ✓			
				GRASSES							
				Stipa tenuifolia (vsp) ✓							
				Vulpia myuros ✓		✓					
SHRUBS				Araucaria cupress ✓		✓					
Ptilothus polystachy ✓		✓		Danthonia ✓		✓					
Opere vagina ✓		✓		Bromus madritense ✓		✓		SEDGES			
								12/10/1999			
								X Podotrocha gnaphal ✓			
								X Ceratogone oblongoides ✓			
								✓ X Solalepis marginata ✓			
								X Helichrysum leucopsid ✓			
				HERBS				X Avena ✓			
				Ursinia anthem ✓		✓		X Ehrharta longiflora ✓			
				Brassica townett ✓		✓		X Crassula sibiriana ✓			
				Podolepis lessoni ✓		✓		small X Wahlenbergia preiss ✓			
				Stypandra glauca ✓				X Pteris ✓			
				Hypochaeris globosa ✓							
				Herodium crygnorum ✓		✓					
				Brachycom ibervilleifolia ✓		✓		Stipa flagellaria (vsp) ✓			
				Waitzia acum ✓		✓					
				Podolepis ramosa ✓		✓					
				Calandrinia calyptrata sp (sterile) ✓ 12/10							
				Narumbra tenella ✓							
				Quinetia urvill ✓							
				Parentac latifol ✓		✓					

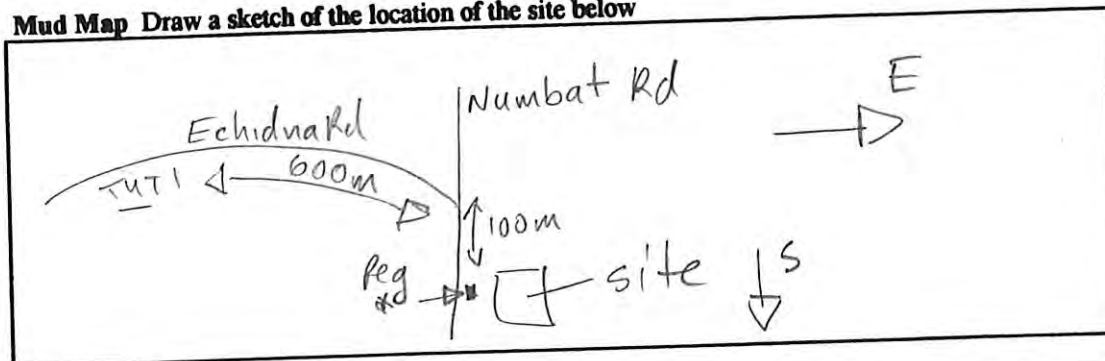
TUTANNING NR
BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TUT A SITE NUMBER 2
 DATE TRIP 31-8-1997 RECORDERS M/L/G/N
 DATE TRIP 8-10-99 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

WK 25

1. LOCATION of the QUADRAT

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



Road Location

Geographic Location Latitude 32°33'13.8 S Longitude 117°20'25.8 E Altitude _____
 GPS Accuracy _____
 Map Sheet H DOP 3.2

AMG
 531967
 6398110

Photograph Name NG Number 11

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

2. SITE DATA Circle the correct response

DUPLEX

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

Surface Soil sand Depth to Rock ? Colour yellow

Exposed Rock type _____ % surface cover NONE size range _____

Litter twigs, lvs % surface cover 30-70 Depth (cm) _____

Bare Ground _____ % surface cover 30-50

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

3. VEGETATION STRUCTURE AND COVER

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
DOMINANT SPECIES					<i>Euc. drummond</i>

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 		 <i>Caloth. quad</i>		
COVER CLASS (%)			(30) - 50		2-10
DOMINANT SPECIES			<i>Leptos. rub</i> <i>Beaufort inc</i> <i>Hakea lehmann</i>		<i>Isopogon</i> / <i>Petr</i>

GRASSES		HERBS		SEDGES	
	over 0.5m			over 0.5m	under 0.5m
LIFE FORM	 	 	  	 	
COVER CLASS (%)	L2	L2			L2
DOMINANT SPECIES					<i>Drosera</i> <i>Fabaes</i>

4. VEGETATION CONDITION

Comments

excellent
long unburnt $\therefore$ lower layer higher

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

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

same structure
same tax

rd on Sheet
WK 25

✓ ADJ Haben ferrugineu (✓50)

TUTANING NR

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA TUTA

SITE NUMBER

7

DATE TRIP 31-8-1997

RECORDERS N/G/L/M

DATE TRIP 8/10/1997

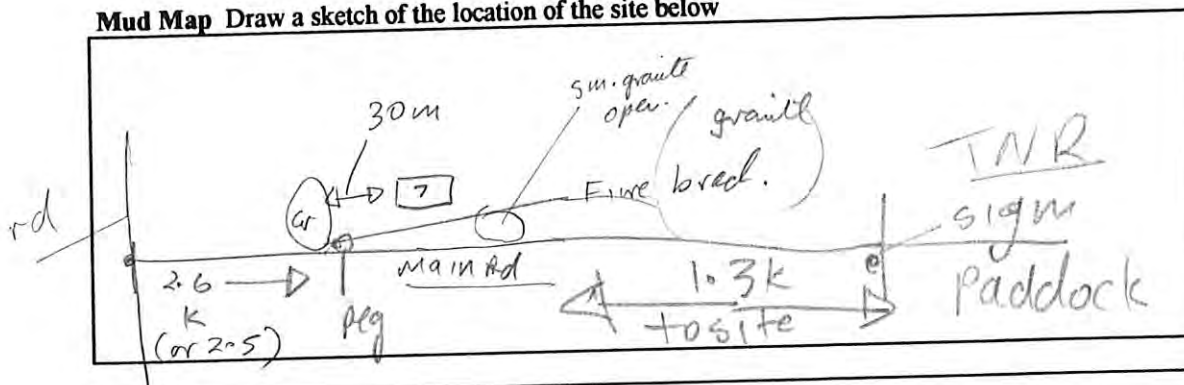
RECORDERS NG/GK/AW

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 31 42.4 S Longitude 117° 18 44.3 E Altitude
 GPS Accuracy HPOD 2.1
 Map Sheet

AMG

529329

6400932

Photograph

Name NG

Number

21

Topographic Position

(Circle the correct response)

Upland

Upper slope

Midslope

Lower slope

Valley

Washline

Granite margin

2. SITE DATA Circle the correct response

Slope flat gentle steepAspect N NE E SE S SW W NW

Surface Soil sandy clay Depth to Rock 10-20 Colour gritty brown

Exposed Rock type granite % surface cover < 2 size range 20cm

Litter twigs, stems % surface cover 70-90 Depth (cm) 2-15

Bare Ground % surface cover < 10-0

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			
DOMINANT SPECIES		<i>Allocas hueg</i>			

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		1-2			
DOMINANT SPECIES		<i>Xanth. drumma</i>			

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	<2	10-30	30-70		2-10
DOMINANT SPECIES	<i>Stipa</i>	<i>Stack. pubesc</i> <i>Dros. bulb</i>	<i>Lepidosperma viscid</i>		<i>Lepidosp - tenue</i>

4. VEGETATION CONDITION

Comments

excellent

WIK 26

TUTANING NR

20 x 20

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 TUTA 7

Record on Sheet

Date 31-8-1997

4-10-1997

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

Euc. wandoo (rare)

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Allocas huegeliana				Drosera pallida				Arctotheca calendula			
				Pterostylis villosa				Borja sphaeroceph			
				Millotia tenuiflora				Levenhook pusilla			
								Trachymene pilosa			
								Drosera menziesii			
								Hyalosperm ? demiss			
								Alnagallis arvens			
MALLEES								Hydrocotyle			
				GRASSES				Chaemasc corymb			
				Neurachne alopec				Blennosperm drumm			
				Stipa				Schoenus nanus			
				ill elegantissima				Daucus glochid			
SHRUBS				Briza minor				Aphelia drummond			
Xanth drumm (dead)				Aira cupiana				SEDGES			
X Siloxerus multiflorus								Lepidosperma viscid			
X Stylidium calcaratum								" sp (terete)			
X Waitzia citrina											
X Schoenus nanus											
X Drosera glanduligera				HERBS							
X Centrolepis				Stackh monogyn				X Cassia micrantha			
X Nicotiana occid				Drosera bulbifera				X Poranthera microphylla			
X Schoenus nanus				Lawrenc davenp							
X Centrolepis ornata				Hypochaer glabra				Schoenus off plumosus			
X Hydrocotyle callicarpa				Thysan manglesian				(basal infl, non plumose perianth)			
X Perenturella latifol				Podolep lesson							
X Hydrocotyle medicag				Trachym pilosa							
X Phyllanthum paradox				Homalosp thomaloc							
X Lobelia tenuior				Waitzia acumin							
X Renneria coccinea				Drosera macranth							
X Goodenia brardiana				Poranthera microphyll							
X Rhodanthe laevis				Velleia cynopot							
X Muhlberg pruss				gonocarp nodul							

yes 8

Sp AZ Fct Is.
(vsp)

8/10/99

vsp

(N Yillmilling NR)

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WARD SITE NUMBER ONE

DATE TRIP 30-8-1997 RECORDERS N/M/G/L

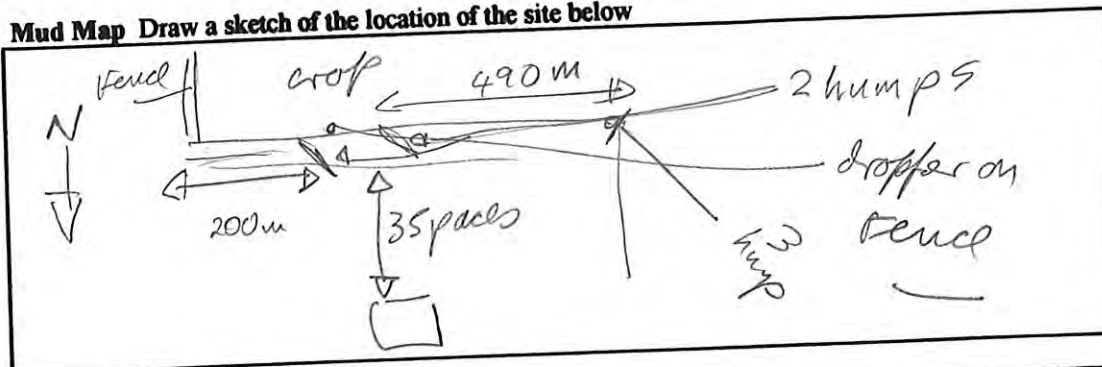
DATE TRIP 7-10-99 RECORDERS NG/GK/AW

DATE TRIP _____ RECORDERS _____

WK27

1. LOCATION of the QUADRAT

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



Road Location

Geographic Location Latitude 32 51 06.9 S Longitude 117 22 21.3 E Altitude _____

GPS Accuracy HDD 4.2

Map Sheet _____

AMG
534863
6365055

Photograph

Name NG

Number 2

Topographic Position

Upland

Upper slope

Midslope

Lower slope

Valley

Washline

(Circle the correct response)

2. SITE DATA Circle the correct response

Slope flat gentle steep

Aspect N NE E SE S SW W NW

Surface Soil sandy clay Depth to Rock 10cm Colour brown

Exposed Rock type limestone % surface cover NONE size range _____

Litter + twigs, lvs, stems % surface cover 30/70 Depth (cm) 2-10

Bare Ground % surface cover 30/50

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%

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	2-10	10-30			
DOMINANT SPECIES	<i>Euc. wandoo</i>	<i>Alloc. huegel</i>			

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		2-10			< 2
DOMINANT SPECIES		<i>Gastro. microp</i>			<i>Astroloma</i>

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	10-30			10-30
DOMINANT SPECIES	<i>Neracme alp</i>	<i>Styl. affine</i> <i>Corn. effusa</i>			<i>Lepidos tenuis</i>

4. VEGETATION CONDITION

Comments

very-good to excellent

20x20

5. SPECIES PRESCENCE

Date 30-8-1997

2-10-99

Record on Sheet

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

same both
var action
+
var action
all right

Column 4						Identification check					
TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. Wandoo ✓				x Oxalis prennans ✓				Trachyme pilosa ✓			
Alloca hnegel ✓				x Phyllanthum paradox ✓				// Waitzia lacum ✓			
				x Hydrocotyle callicarpa ✓				Blench drumm ✓			
				x Wahlenbergia gracile ✓				Trichocline glabrous ✓			
				x Heliphrisum leucosiphon ✓				// pterostyl vittata ✓			sanguin
				x Stylidium uniflorum ✓				Drosera macranth ✓			
MALLEES				x Briza max ✓				Lobelia tenuir ✓			
				x Arthropod. capillipes ✓				Wahlenb. preissii ✓			
				GRASSES				Hypoch. glabra ✓			
				Nerachme alopec ✓				Phagen chueg ✓			
				Stipa terrophylla ✓			(VSP)				
				Danthonia ✓							
SHRUBS				stipa (lge) ✓				SEDGES			
Gastrol parviflorum ✓				Vulpia myuros ✓				Leptosperma tenax ✓			
Astradoma serratifolium ✓								Dasmocladius asper ✓			
Operc vag ✓				Acacia lasiocarpa var sedifolia ✓				Loxorarya fascicul ✓			
Ibb. exaspiptera ✓				stowardii ✓							
Hibb commutatar ✓				HERBS							
				Lomandra elliptica ✓				7/10/99			
Jomph margin ✓				Glissochoryon flav ✓				x Stipa elegant ✓			
Isoltrop Scuenit ✓				Ostylid affide ✓				x Wartzia citrina Rhodantha } ✓			
Stackh monophyln ✓				Stylid pilif ✓				x Comesterna volubite ✓			
				This patet ✓				x Airacaryophyll ✓			
				Rhodantha manat ✓				x Levenhookia pusilla ✓			
				Calad flaval ✓				x Ceratogone albionides ✓			
				Lomand micrantha ✓				x Chalchascilla versic ✓			
				Lawrenc daveno ✓				x Aphelia drumm (Aphelia) ✓			brizula)
				Arthrop curvipies ✓				+ Caladenia flava ✓			
				Ursinal anthem ✓				x Gonocarpus nodul ✓			
				Podolepis canesc ✓				x Hydrocotyle pilifera ✓			
				Rhodantha laevis ✓				x Brassica townsoni ✓			
				X Calsia micrantha ✓				X schoenus nanus ✓			
								x Velleia cynopot ✓			

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WARD SITE NUMBER TWO

DATE TRIP 30-8-1997 RECORDERS N/L/G/M

DATE TRIP 7-10-99 RECORDERS Ng/gk/AW

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 47 46.2 S Longitude 117 26 14.9 E Altitude
GPS Accuracy HDDP 5.7
Map Sheet

AMG
540961
6371212

Photograph Name NG Number 3/4

Topographic Position (Circle the correct response)
 Upland Lower slope
Upper slope Valley b/l b/away
 Midslope Washline

2. SITE DATA Circle the correct response

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

Surface Soil sandy clay Depth to Rock 30-50cm Colour grey

Exposed Rock type _____ % surface cover laterite below surface size range

Litter leaves, twigs % surface cover 100 Depth (cm) 5-10

Bare Ground % surface cover 0

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

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				
DOMINANT SPECIES	<i>Euc. astring</i>				

SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			<1		
DOMINANT SPECIES			<i>Gast. tricuspid</i> (Adj)		

GRASSES		HERBS		SEDGES	
	over 0.5m			over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		<2			
DOMINANT SPECIES		<i>Pterostylis reana</i> <i>Cal. sacc</i> <i>Pter. vitt.</i>			

4. VEGETATION CONDITION

Comments

excellent

cut over > 50 yrs

20x20

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

Gast. tricus p -
Trees same

USP

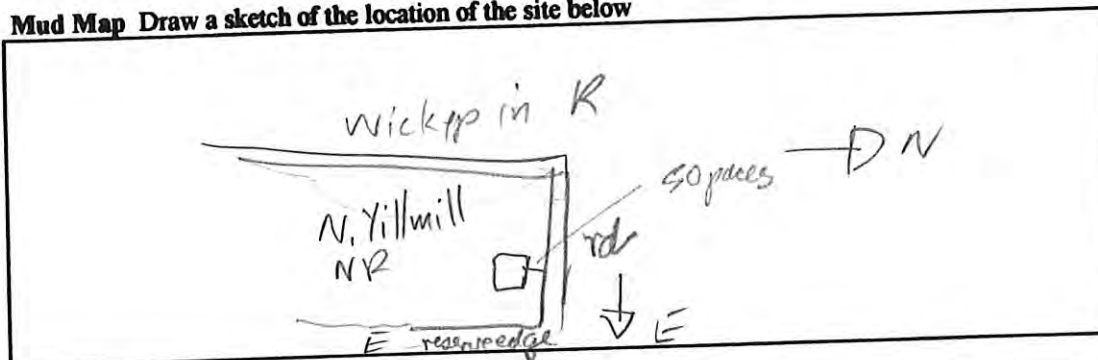
N. Yillmilliing NR
BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WARD SITE NUMBER THREE
 DATE TRIP 30-8-1997 RECORDERS N/M/G/L
 DATE TRIP 7-10-99 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

WK 29

1. LOCATION of the QUADRAT

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



Road Location

Geographic Location Latitude 32° 50' 28.1 S Longitude 117° 22' 31.5 E Altitude 535
 GPS Accuracy 100P 3.1
 Map Sheet

AMG
 535 133
 6366249

Photograph Name NG Number 5

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 sandy clay **Depth to Rock** ? 10-50 **Colour** grey-brown

Exposed Rock type < 2 % surface cover Latrite size range 2-10

Litter twigs, lvs % surface cover 70-90 Depth (cm) 2cm

Bare Ground % surface cover 10-30

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

3. VEGETATION STRUCTURE AND COVER

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

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 (%)	10-30				
DOMINANT SPECIES	<i>Euc. longic</i> <i>Euc. astring</i>				
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	under 0.5m
LIFE FORM					
COVER CLASS (%)	< 2	< 2			
DOMINANT SPECIES	<i>Stipa eleg</i>	<i>Lom effusa</i>			

4. VEGETATION CONDITION

Comments

cut over heavily - regenerating
> 50 yrs

very good - excellent

20x20

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WARD 3

Date 30-8-1997

7-10-99

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

Euc. wandoo -

W.K 29

TREES			No	FI	ID	SHRUBS (cont.)			No	FI	ID	HERBS (cont.)			No	FI	ID
Euc. longicornis					✓							7-10-1999					
Euc. Ostringens					✓							x Thysanotus patersonii					

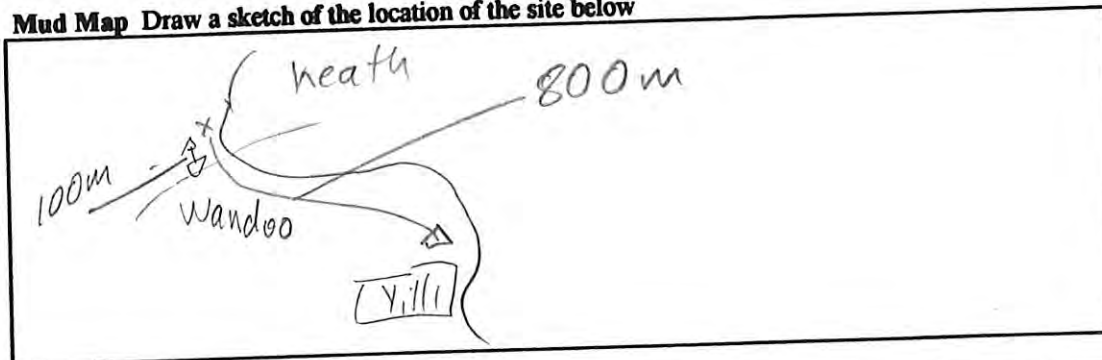
BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA YILL SITE NUMBER TWO
 DATE TRIP 29-8-1997 RECORDERS M/N/L/G
 DATE TRIP 27-10-99 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

WK30

1. LOCATION of the QUADRAT

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



Road Location

Geographic Location Latitude 32°55'40.4 S Longitude 117°21'12.7 E Altitude 533052
 GPS Accuracy H00P 2.3
 Map Sheet 6356639

Photograph Name NG Number I

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 lateritic loam Depth to Rock 2cm Colour brown

Exposed Rock type laterite % surface cover _____ size range _____

Litter twigs, lvs % surface cover 10-30 Depth (cm) 2cm

Bare Ground % surface cover 30-50

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

3. VEGETATION STRUCTURE AND COVER

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 (%)				30-70	2-10
DOMINANT SPECIES				Dry. armata Hak. lehman Bank. sphar	Hibb exasp

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10				
DOMINANT SPECIES	Amph. pogen Neckar chel				Schoenus

4. VEGETATION CONDITION

Comments

excellent

20720

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No YILL 2
Date 29-8-1997
7-10-99

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

same

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.) 7/10/99	No	FI	ID
				Camesperma virgat -				X Prasophyllum (tall spike)			
				Dampiera juncea (vsp)				X Levenhookia pauciflora			
				Calytrix brevistylis				X Verticordia huegelii ssp. tridens			
				Hakea incrassata				X Stylidium sakumellorum (vsp)			
				Hakea auriculata prostrata				X Thysanotus paterson			
				Melaleuca (grey) tuberculata				X Daviesia decurrens (vsp)			
				Dampiera atata hildelii				X Leucopogon cymbiformis (vsp)			
MALLEES				Synaphaena aff. interioris (20) (use)							
				GRASSES							
				Neurachne alopec							
				Calytrix leschenaultii (vsp)							
SHRUBS								SEDGES			
Melaleuca pungens								Mesomelaena stygia (weiss)			
Dry. armata								Schoenus (the)			
Lysinema ciliatum								X Lepidosiphon angust. brunonianum			
Isopogon teretifolius								Schoenus globifer			
Bankia sphaerocarpa								Schoenus (sub)			
Hakea lehmann								Nepidosiphon sp PI			
Cryptandra ? nutans (vsp)				HERBS				Guichenotia micrantha			
Hibbertia exasperata (vsp)				Stylid pili				(ADJ)			
Beaufortia lincana				Picrostyl serrata							
Hakea incrassata				Chaemix serra							
Allocas microstach				Drosera macrantha							
Dryandra seneciif				Chasm omnifer							
Leucopogon dielsianus				Chaemas sp							
Leucopogon ? flimbristylis				Drosera (pyg) androsacea (vsp)							
Allocas ? humilis				Thelymit							
Nemcia ? obovata											
Cryptandra ? myrtill nutans											
Persoonia tortifol											
Verticordia grandiflora (vsp)											
Leucopogon gonosteph											

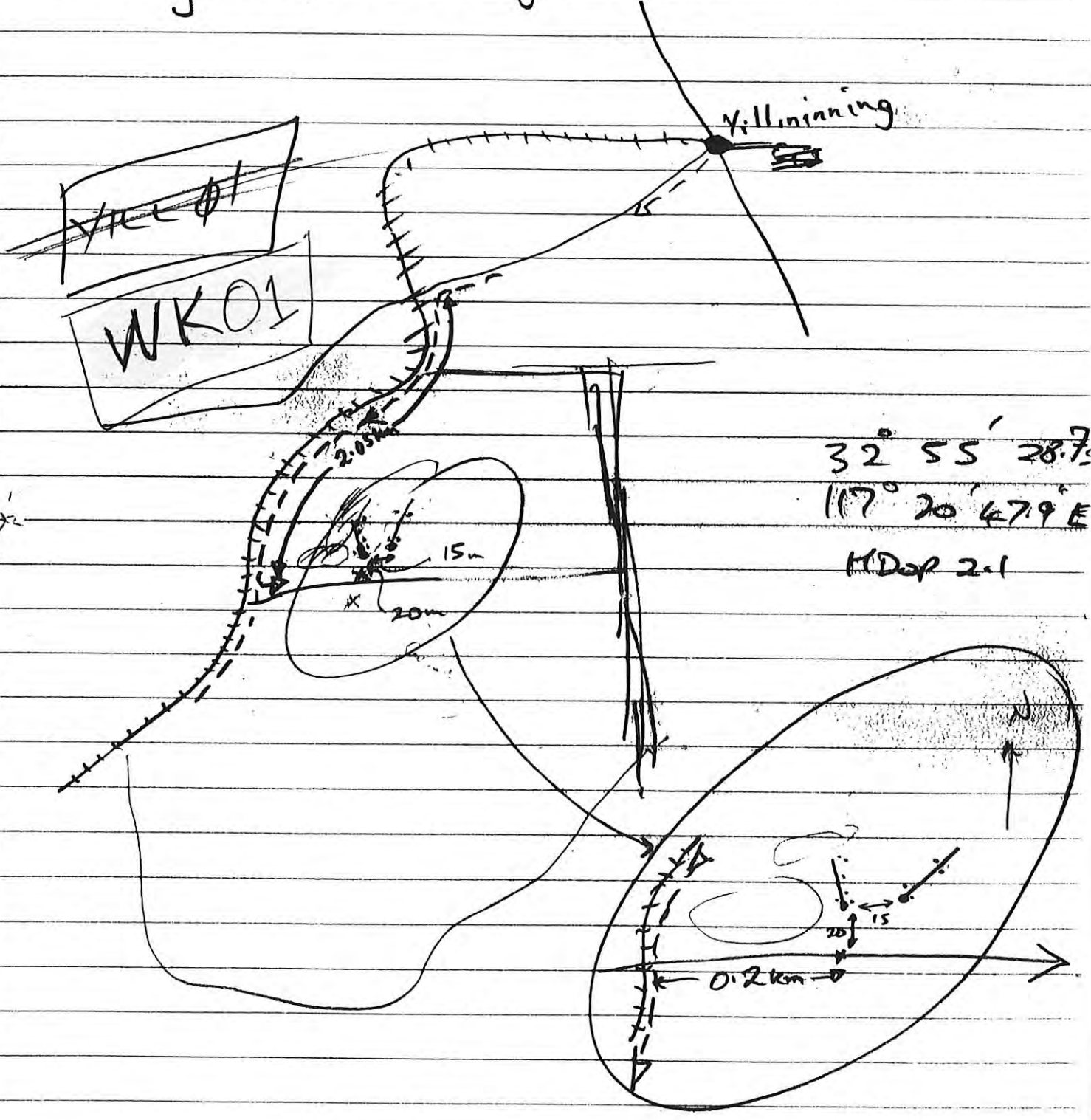
Camesperma volubilis 29/8

Trymalium monosperma 29/8/97

Area 1

↑ 21067 17 km E of Narvogen

She Oak & some waxes/
Calothrix, Lepidosperma, Drossera, Drandra
on Mg surface below granite sheet



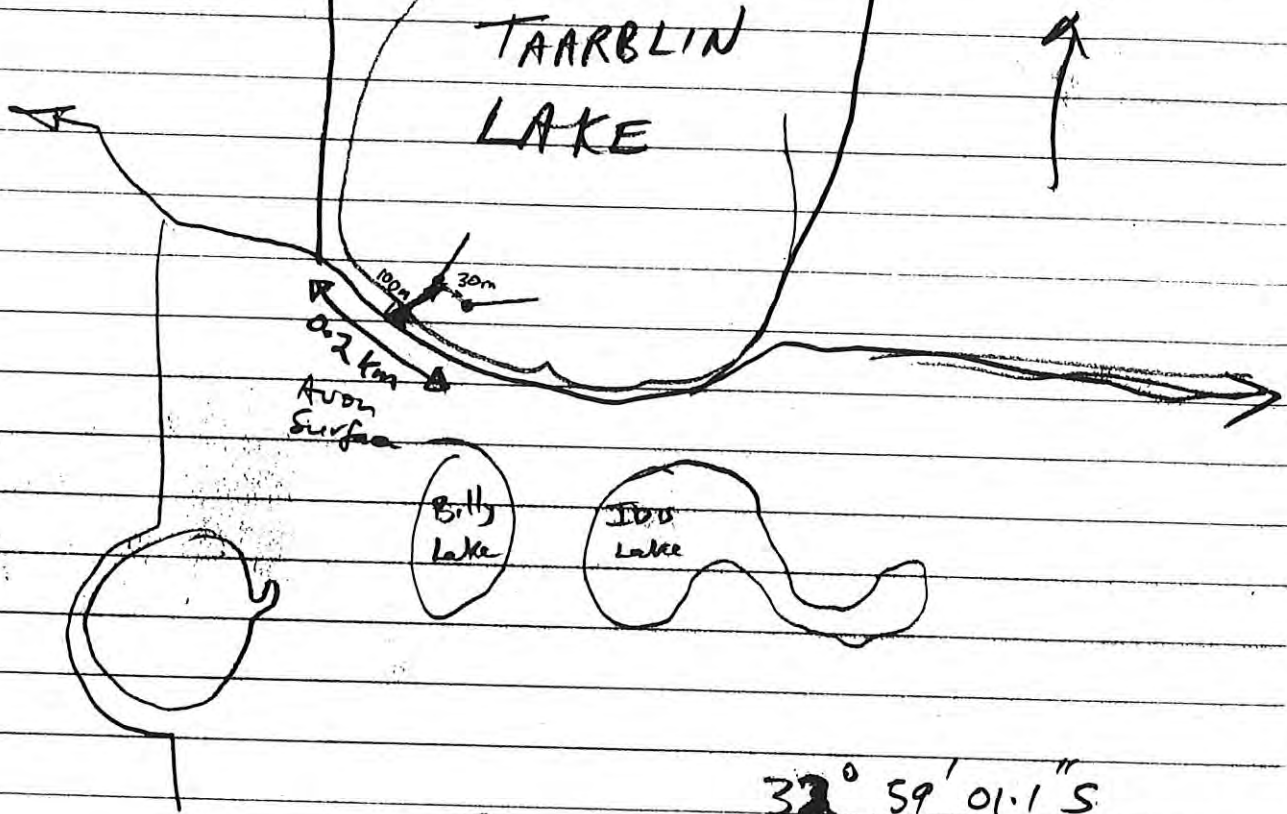
↑ 9550

10 km SW of Toolibin Lake

Casuarina obesa / samphire

salt affected — *C. obesa* is dead

S = claypan floor
in Mo surface



$32^{\circ} 59' 01.1'' S$

$117^{\circ} 32' 18.5'' E$

HDOP = 23

~~TAARBLIN~~

WK 02

NE corner of Lake Toolibin 41 km E of Narrogin

↑ 24556

S on Mo of Claypan Floor

Melaleuca paperbark

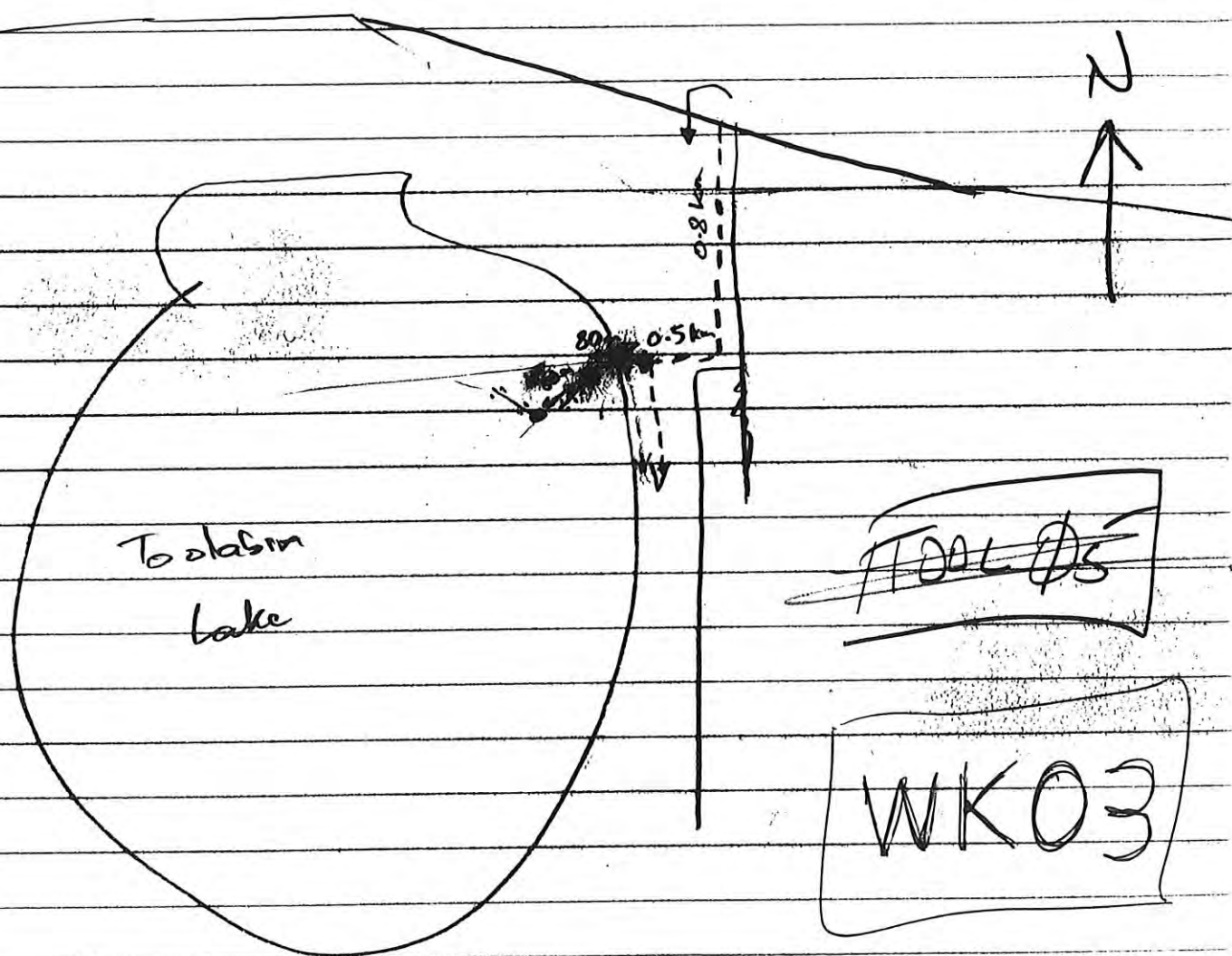
Car. obesa

salting imminent

$32^{\circ} 55' 04.6'' S$

$117^{\circ} 36' 57.2'' E$

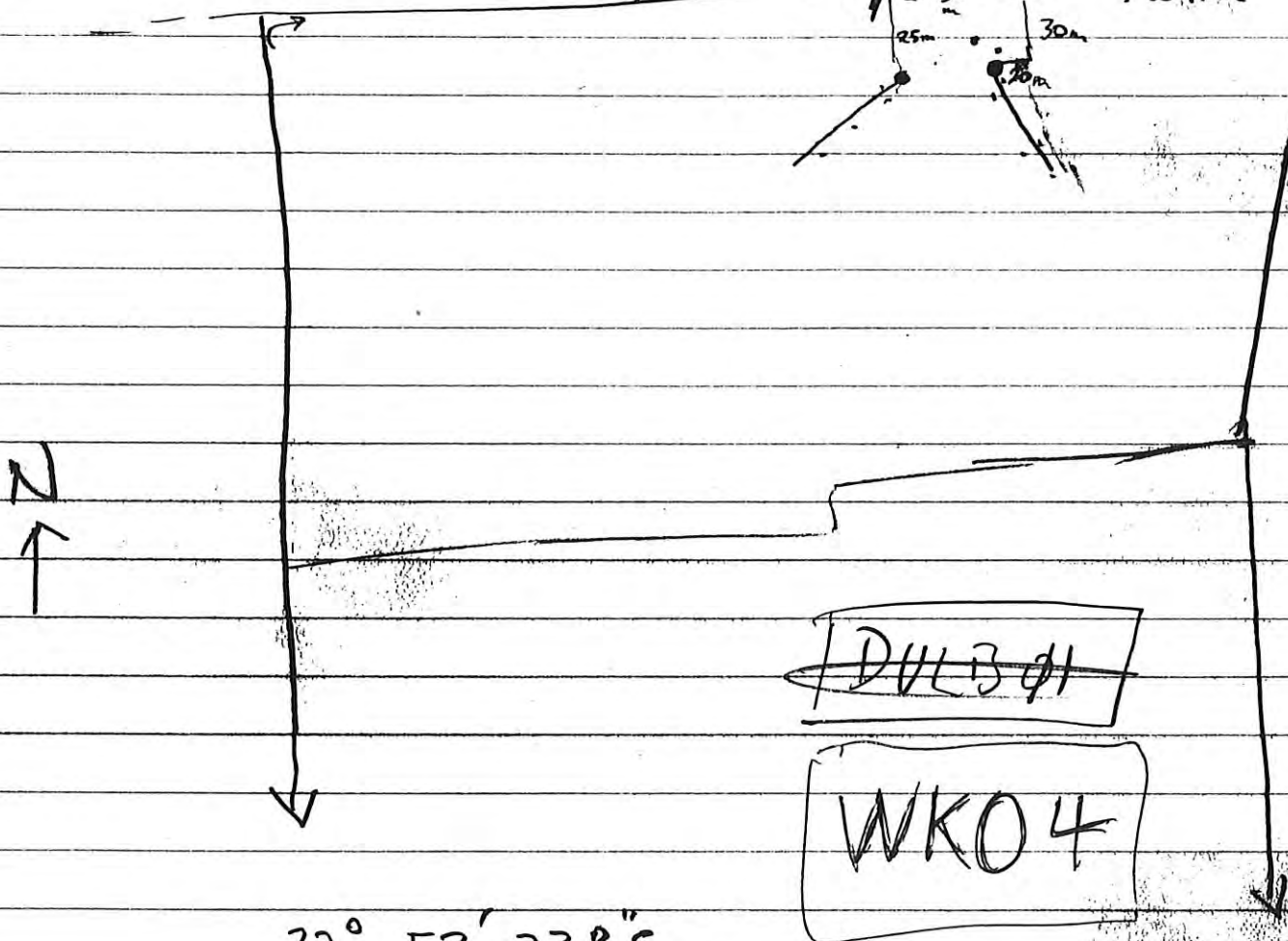
HDOP = 2.6



↑ 27286 4 km NE of Toolibin Lake, 41 km E of Narrogin

Salt affected = dead trees

Salmon Gum, Wandoo, York Gum / Melaleuca shrubs & Gahnia (scrub)



32° 53' 23.8" S
117° 38' 42.5" E
HDOP = 2.0

↑ ?

12 km ENE of Toolibin ~~LA~~ + 54 km E of Navrogin

N Morrel, Wandoo, Olearia ~~Jam~~, York Gum +
Salmon Gum

$32^{\circ} 53' 24.6''$ S
 $117^{\circ} 45' 29.3''$ E
HDOP = 1.9

~~SCRIVOT~~

0.6 km

100m

30m

WK05

Scriveners Soak

Water Reserve on railway Line, 5 km NE Harrismith
26 km E of Lake Tootibit

Kauning (K) sandstone

Banisia baurii

B. sphaerocarpus

Dryandra nivea

Allocasuarina humilis

Grevillea exaltata

Flakea baxteri

Isopogon etc

$32^{\circ} 54' 41.5''$ S

$117^{\circ} 53' 40.4''$ E

HDOP = 2.8



HARR 02

WK06

WK13 [Note on original
flora db this
coded as WK16]



3.9 km



Harrismith

Tuttanning NR, western End

Y = York Surface

WK07

Jam Sheave Wadob L Woodl

over short grassy heathland

clark *Chrestanthus* (fern)

Staphanura (herb)

Lawrancea davenport (herb)

Notochanthus (grass)

Drosera erythraea

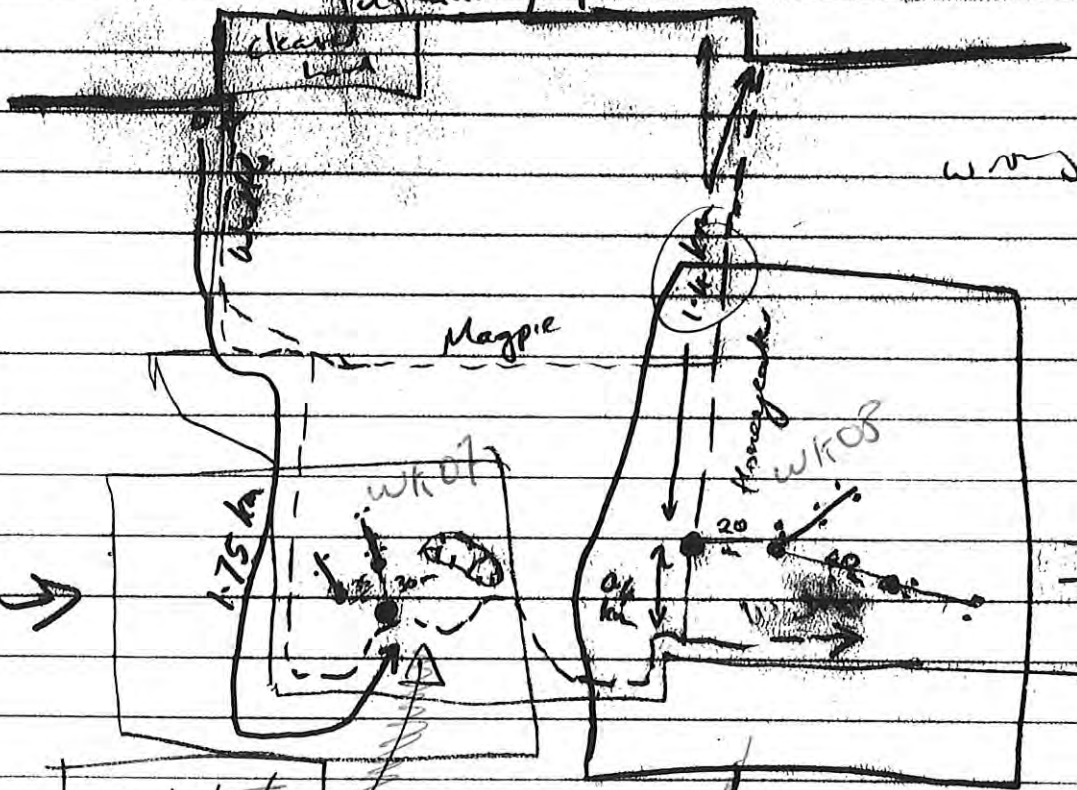
32° 32' 42.0"S

~~Neurachne~~ (grass)

117° 16' 32.6"E

HDOP = 2.2

Tuttanning Rd



TUTIA 06

WK08

B = Balkahing

Wadob/Box

32° 32' 29.0"S

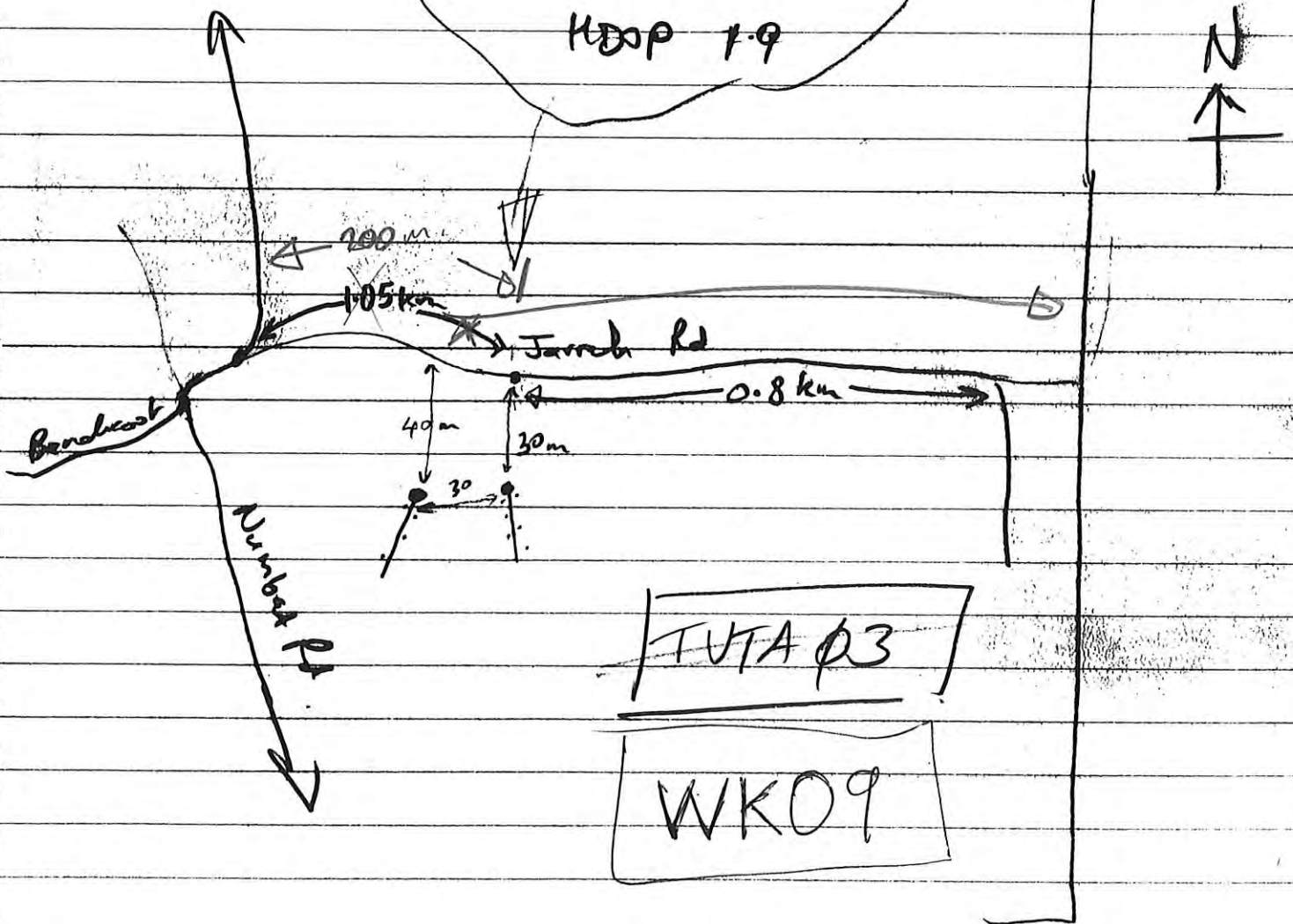
117° 16' 50.4"E

HDOP = 2.0

Tuttanning — SE corner, ~~near~~ E of house

Qe Dryandra yellow gravelly sand / pavement
Mallee
Hakea

$32^{\circ} 33' 33.9''$ S
 $117^{\circ} 20' 38.9''$ E
HDDP 1.9



Tuttanning NR

SE section, N of house

M sandplain

gray sand / pale yellow sand

B attenuata

Allocasuarina humilis

Leptospermum erubescens

Hakea rostrata

32° 33' 17.0"S

117° 20' 03.1"E

HDOP = 2.1



Poison Rd

Dumbak

Echidna Rd

House

TUTA 01

WK10

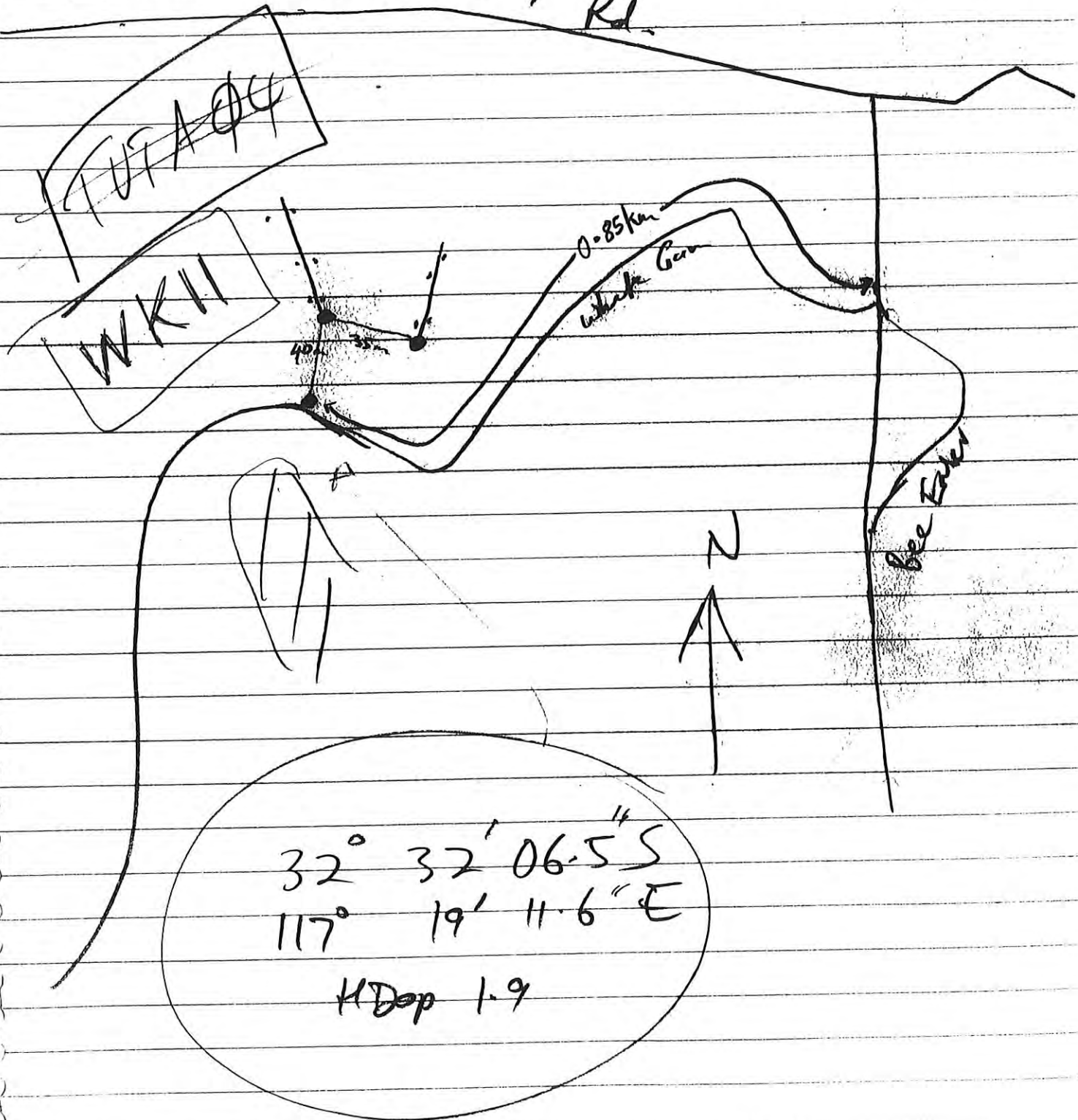
AMC - 531375

6398013

Tuttanning NR (central)

Bg Powder Bark / Prickly Pear + Isopagan

Tuttanning Rd.



Area 6

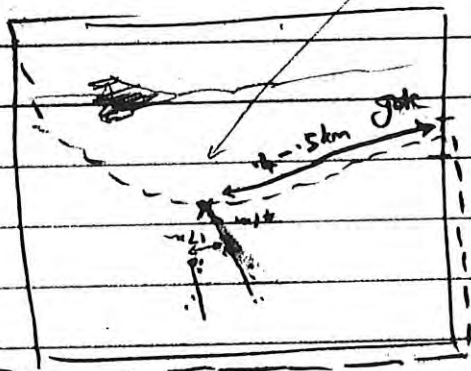
Wardening Spring NR ↑ 29589 (14 km WSW Wickham)

E. oxophloeaba woodland / weeds +
litter on Aton surface

Narrogun



17.0
32° 50' ~~17.0~~ S
117° 21' ~~30.7~~ E
± 80 m K'DOP 20ft.



WK 12

house

road

Toolibin Townsite (41 km E of Narrogin)

Old *Bankia prionota* / *Eremaea parviflora*
Deep Yellow Sand

Lake
Toolibin

Neil's site
on rd E of Gum

TOOL 02

WK 22

Townsite

see field book.

TO BE DONE