

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER NO 1
 DATE TRIP 29/9/98 RECORDERS NG/MC
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norms maps

Road Location Olsen Rd. E of NW Coastal Hwy. / Oakagee NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude
	<u>Cieration 1:100,000</u>		

Photograph	Name	Number
	<u>Ng 01</u>	

Topographic Position	(Circle the correct response)
Upland	<u>Lower slope</u>
Upper slope	Valley
Midslope	Washline

2. SITE DATA Circle the correct response

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	E	SE	S	<u>SW</u>	W	NW

Surface Soil	<u>Red clay</u>	Depth to Rock	Colour
		<u>—</u>	

Exposed Rock	type	% surface cover	size range
	<u>—</u>		

Litter	<u>L2</u>	% surface cover	Depth (cm)

Bare Ground	<u>L2</u>	% surface cover

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 (%)	2-10	30-70			
DOMINANT SPECIES	<i>Acacia</i>	<i>Acacia</i> <i>Acacia</i> <i>Sesuvium</i>			

GRASSES		HERBS		SEDGES		
	over 0.5m		under 0.5m			
LIFE FORM	 	  	  	 		
COVER CLASS (%)	2-10	> 70				
DOMINANT SPECIES	<i>Amphipogon strictus</i>	Mixed				

4. VEGETATION CONDITION 2-3

Comments

Comments
Lots Annual + perennial weeds.

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No 201

Date 29/9/58

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

is flowering

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

[illegible]

Vallis cyclopentamerica 29/9.

11.11.2019

Arctotheca calendula 19/8

Phodanthle barilegal 29/9

Haemodorum sparsiflorum 15/8 (US)

ADJ Chelaris pectinata 1780

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER Nb 2
 DATE TRIP 29/9/98 RECORDERS NA / MC
 DATE TRIP 14/8/1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norm's map

Road Location Nanson - Nabella Rd. / Howo Tharra NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	Ng 02	

Topographic Position	(Circle the correct response)
Upland	<u>Lower slope</u>
Upper slope	Valley
Midslope	Washline

gully in lower slope

2. SITE DATA Circle the correct response

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

Surface Soil Brown Clay loam Depth to Rock lots of gravel Colour _____

Exposed Rock type _____ % surface cover _____ size range _____

Litter _____ % surface cover _____ Depth (cm) _____

Bare Ground _____ % surface cover _____

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

3. VEGETATION STRUCTURE AND COVER

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

Cover Class					
	2-10%	10-30%	30-70%	over 70%	
TREES					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					2-10%
DOMINANT SPECIES					<i>E. ? redunca</i>
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		>70%			
DOMINANT SPECIES		<i>Metaleuca megaphylla</i> <i>Grevillea ? haptantha</i>			
GRASSES					
	HERBS		SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			30-70%		
DOMINANT SPECIES			<i>Lepidosperma tenue</i>		

4. VEGETATION CONDITION 2

Comments

quadrat was off bulldozed line
- disturbance beside quadrat

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No No 02

Date 29/9/98

14/8/99

15/8/95

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]

Asas Holom esp. ~~along~~ ^{up} 2/17

Stylidium

✓ Pterostylis ~~sp~~ sang. 18/8

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER No 3

DATE TRIP 30/9/98 RECORDERS NA / MC

DATE TRIP 14/8/99 RECORDERS NG/GK/AW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norms Map

Road Location Bella Vista Rd / Hewortharra NR

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

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

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 Brown sandy loam ^{-5cm} Depth to Rock both with Colour _____
below 5cm pale clay (cream) gravel

Exposed Rock type _____ % surface cover _____ size range _____

Litter _____ % surface cover _____ Depth (cm) _____

Bare Ground _____ % surface cover _____

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

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (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%			
DOMINANT SPECIES		<i>Naustia floribunda</i> (20x20)			

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	>70%			2-10%	
DOMINANT SPECIES	<i>Melaleuca megaphala</i> <i>Grevillea? hirsuta</i> <i>Calothamnus</i> sp. No2			<i>Melleostoma</i> sp.	

GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30%	2-10%	10-30%		
DOMINANT SPECIES	<i>Avena fatua</i> <i>Brixa maxima</i> <i>Aporhata? aff. calycynus</i>	<i>Conostylic</i> sp. <i>Podolepis lissolia</i> <i>Trifolium campepi</i>	<i>Lepidosperma</i> true aff.		

4. VEGETATION CONDITION

2-3

Comments

Lots of grassy weeds

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

TICK if species flowering

✓ *Clematociss*

5. SPECIES PRESCENCE

SITE No No 3

Date 30/9/98

14/8/99

- Column 1 plant name
 - Column 2 plant number
 - Column 3 flowering time- TICK if species flowering
 - Column 4 identification check
- | No | Fl | ID | |
|----|----|----|--|
| | | | |

✓ *Stenotocissus angustissima*

SITE No	No 3
Date	30/9/98
	14/8/99

Column 2
Column 3
Column 4

flowering time- TICK if species flowering

Identification check

TREES			SHRUBS (cont.)			HERBS (cont.)			No	FI	ID
Nyctia florabunda (Zorr)			Trifolium campestre			Apeila cyperoides					
			Wahlenbergia preissii			Canocarpus paniculatus nodulosus					
			Bartsia (trixago)			Hypochoris glabra					
						Elicharis dilatatus - Eriochilus					
						Burchardia congesta					
						Clematis (clematocissus ang)					
						Orosera glandigena					
						Galium (murale)					
						Parenteceria viscosa					
						Chielochus austroaustralis					
						Sporobolus laxifolia					
						Climax (Terra leaf)					
						Wardia sawealies					
						SEDGES					
						Epilaspia tenuis					
						Loxocarya aspa					
						Sonch (ol-raceus)					
						Stylidium No 2 (big)					
						Cyper (flat-leafed sterile)					
						Urospermum picrodes					
						Dampiera sp. linearis					
						Bacca (heptozema aphylla)					
						Artropodium capillipendens (large)					
						Anagallis avarus					
						Xanthorrhoea preissii					
						Hypoxis oc					
						Calceolifordii					
						Arthropodium capillip					
						Prasophyllum (as NO 13)					
						Pterostylis sanguinea					
						Pterostylis					
						Inula dioica					
						Opercularia vaginata					
						Conostylis aculeata					

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER No 4
 DATE TRIP 29/9/98 RECORDERS NA / MC
 DATE TRIP 15/8/1999 RECORDERS NG / GK / AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norms Map

Road Location Bellavista Rd / Bella Vista NR

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

Photograph	Name <u>NG 3</u>	Number
------------	------------------	--------

Topographic Position	(Circle the correct response)
Upland	<u>Lower slope</u> Foot of 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	Depth to Rock	Colour
<u>Grey sand</u>		
at 10cm deep cream sand		

Exposed Rock	type	% surface cover	size range
--------------	------	-----------------	------------

Litter	% surface cover	Depth (cm)
<u>40-50%</u>		<u>upto 10cm</u>

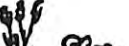
Bare Ground	% surface cover
<u>0</u>	

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 (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					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM		6-7m 	 		
COVER CLASS (%)		30-70%			
DOMINANT SPECIES		<i>Ranksia menziesii</i>			
		<i>Nuytsia floribunda</i> (20x20)			
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	SHRUBS under 0.5m
LIFE FORM	 				
COVER CLASS (%)		30-70%			
DOMINANT SPECIES		<i>Allarcasuarina humilis</i>			
		<i>Kenthorheea priesii</i>			
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM	 	 	 		
COVER CLASS (%)			10-30%		
DOMINANT SPECIES			<i>Hypolaena exaltata</i>		

4. VEGETATION CONDITION 2

Comments

Long unburnt with deep litter

add Con. aculeata to N^o 3

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No NO 4

Date 29/9/98

14/8/99

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

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER No 5
 DATE TRIP 30/9/98 RECORDERS NA / MC
 DATE TRIP 15/8/99 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norms Map

Road Location Gravel road to SW of Nabawa-Yenta Rd

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

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

Topographic Position	(Circle the correct response)
<u>Upland</u>	Lower slope
Upper slope	Valley
Midslope	Washline

2. SITE DATA Circle the correct response

Slope	Aspect
<u>flat</u> gentle steep	N NE E SE S SW W NW

Surface Soil	Depth to Rock	Colour
<u>to 10 cm yellowish</u>		
<u>sand over gravel</u>		

Exposed Rock	type	% surface cover	size range
--------------	------	-----------------	------------

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

Bare Ground	20	% surface cover
-------------	----	-----------------

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

3. VEGETATION STRUCTURE AND COVER

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

Cover Class					
2-10%		10-30%		30-70% over 70%	
TREES					
over 15m		5-15m		under 5m	
LIFE FORM					
MALLEES					
over 8m		under 8m			
LIFE FORM					
SHRUBS					
over 2m		2m-1.5m		1.5-1m	
LIFE FORM					
SHRUBS					
over 2m		2m-1.5m		1.5-1m	
LIFE FORM					
GRASSES					
over 0.5m		under 0.5m			
LIFE FORM					
HERBS					
over 0.5m		under 0.5m			
LIFE FORM					
SEDGES					
over 0.5m		under 0.5m			
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

4. VEGETATION CONDITION 2

Comments

- In good condition
- Appears to be old xanth. stamps in plot

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No No 5

Date 30/9/98

~~11-4~~ - 1999

15-8 -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

[illegible]

? *G. ochroleuca* in *Wahlb.* 30/9.
Wahlb. in *Wahlb.* 30/9.

Levenhookia pusilla ✓

✓ Danfer in Valley 15/8 ✓

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER NO 6

DATE TRIP 30/9/98 RECORDERS NA / MC

DATE TRIP 14/8/1999 RECORDERS NG/GK/AW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norms Map

Road Location Nabawa - Tanta Rd

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

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

Topographic Position	(Circle the correct response)
Upland	Lower slope
Upper slope	Valley
<u>Midslope</u>	Washline

2. SITE DATA Circle the correct response

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	<u>E SE</u>	S	SW	W	NW
-------	------	---------------	-------	--------	---	----	-------------	---	----	---	----

Surface Soil	<u>Deep Yellow Sand</u>	Depth to Rock	Colour
	<u>No gravel</u>		

Exposed Rock	type	% surface cover	size range
--------------	------	-----------------	------------

Litter	25-30 % surface cover	Depth (cm)
--------	-----------------------	------------

Bare Ground	40 % surface cover)
-------------	---------------------

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			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		2-10%			
DOMINANT SPECIES		<i>Banksia priacanthos</i>			
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10-30%	30-70%		
DOMINANT SPECIES		<i>Allocasuarina campylo</i>	<i>Conospermum?</i>	<i>Scaevola</i>	
		<i>Xanthorrhoea</i>	<i>Hibbertia</i>	<i>NoS</i>	
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

4. VEGETATION CONDITION 2

Comments

- Trap-lines 1+2 appear to have significant Banksia death

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

if species flowering

5. SPECIES PRESCENCE

SITE No No 6

Date 30/9/98

1518 / 1999

Label each plant with plants number, site code, and date.
Record on Sheet

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

Date 30/9/98 15/8/1999				Column 3				flowering time- TICK if species flowering				Column 4				identification check				HERBS (cont.)				No				FI				ID			
TREES				SHRUBS (cont.)																															
Banksia ~~pranotes~~																																			

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER No 7
 DATE TRIP 30/9/98 RECORDERS NA/MC
 DATE TRIP 14/8/99 RECORDERS NA/GK/AU
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norms Map

Road Location Ajana Back road.

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

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

Topographic Position (Circle the correct response)

<u>Upland</u>	<u>Flat around granite</u>	<u>Lower slope</u>
<u>Upper slope</u>		<u>Valley</u>
<u>Midslope</u>		<u>Washline</u>

2. SITE DATA Circle the correct response

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

Surface Soil some granite at surface (minimal) Depth to Rock _____ Colour _____
Red-orange clay-loam down to. hard setters red clay at 15cm

Exposed Rock type _____ % surface cover _____ size range _____

Litter 20 % surface cover _____ Depth (cm) _____

Bare Ground 10-15 % surface cover _____

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

3. VEGETATION STRUCTURE AND COVER

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

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

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		2-10%			
DOMINANT SPECIES		<i>E. loxophylla</i> (stockinged sep)			

	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30%		10-30%		
DOMINANT SPECIES	<i>A. acuminata</i>		<i>Acrolyma tomentosa</i>		

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		30-70%			
DOMINANT SPECIES		<i>Watsonia acuminata</i> <i>Lorenciaea davayana</i>			

4. VEGETATION CONDITION 2

Comments

Some acutata sp. structure still intact + lots of annual herbs still here.

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No No 7
Date 30/9/98
14/8/1999

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

Herbs mostly finished
Need to re-score in early spring.

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
☒ <i>E. loxophleba</i> (stockinged sp)								<i>Podolopis lesonii</i>			
								<i>Hypochaeris glabra</i>			
								<i>Levenhaukia sp. leptantha</i>			
								<i>Cephaloptrum drummondii</i>			
								<i>Hydrocarpum domusum</i>			
								<i>Bulbine sp. (semi-barbata)</i>			
								<i>Corysperma integrum</i>			
				<i>Ehrharta longiflora</i>				<i>Manratata sp.</i>			
				<i>Lamorkia aurea</i>				<i>Plantago aff. hispidula</i>			
								<i>Claver Trifolium subterraneum</i>			
				GRASSES				<i>Sarcus olivace</i>			
				<i>Pentstemonis airoides</i>				<i>Bractea tarantii</i>			
				<i>Amphipogon strictus</i>				<i>Halosperma glutinosagglutinosa</i>			
				<i>Bromus diandrus</i>				SEDGES			
				<i>Small flowered barbata</i>							
				<i>Danthura sp.</i>							
				<i>Vallea myra</i>							
				<i>Avena festu</i> <i>barbata</i>				+ Grass <i>ssp grandistipulata</i>			
				<i>Stipa elegantissima</i>				<i>Labiichea teretifolia</i>			
				<i>Stipa trichophylla</i>				<i>Dioscorea hastifolia</i>			
				HERBS				<i>Clematocissus angust</i>			
				<i>Watzia acuminata</i>				<i>Calotis multicaulis</i>			
				<i>Coreocata davenportii</i>				<i>Hypoxis 2 leptanthaglabella</i>			
				<i>Brachyostia valutina</i>				<i>Calladenia hirta pterocarpa</i>			
				<i>Ptylotes gardicordiana</i>				<i>Calisida calyxhyphen</i>			
				<i>Rodanthia laevis</i>				<i>Erodium cyathorum</i>			
				<i>Anthropodium capilaris</i>				<i>Sisymbrium orientale</i>			
				<i>Crassula colorata</i>				<i>Hydrocotyle pilifera</i>			
				<i>Whalenbergia sp. (fruit) preissii</i>				<i>Senecio glossanthus</i>			
				<i>Zygophyllum sp. (? Dioscorea)</i>				<i>Thysanot mangles</i>			
				<i>Ptylatus shouatus</i>				<i>Oxalis pennicaris</i>			
				<i>Chelanthus austrotenuifolia</i>				<i>Portulaca debilis</i>			
				<i>Trachymene ornata</i>							
				<i>Stanopetalum sp. gracile</i>							
				<i>Trachymene cyanopetala</i>							

4/8

vsp

vsp

(vsp)

10/11

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER NA 8

DATE TRIP 30/9/98 RECORDERS NA / MC

DATE TRIP 14/8/1999 RECORDERS NA / GK / AW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norms Map

Road Location Chimmony Rd. / Chilimony NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	<u>NA 9</u>	

Topographic Position	(Circle the correct response)
Upland	Lower slope
Upper slope	Valley
Midslope	<u>Washline</u>

2. SITE DATA Circle the correct response

Slope	Aspect
<u>flat</u> gentle steep	N NE E SE S SW W NW

Surface Soil	Depth to Rock	Colour
<u>Sandy loam</u> <u>red-brown</u> <u>uniform</u>		

Exposed Rock	type	% surface cover	size range

Litter	% surface cover	Depth (cm)
<u><2%</u>		

Bare Ground	% surface cover

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

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

3. VEGETATION STRUCTURE AND COVER

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

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

TREES						MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m		
LIFE FORM						30m	10m
COVER CLASS (%)		30-70%					
DOMINANT SPECIES		Casuarina obesa					
SHRUBS					SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)							
DOMINANT SPECIES							
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM						1m	
COVER CLASS (%)		>70%		10-30%			
DOMINANT SPECIES		Herb - spiklet 4 Petal		Juncus acutus			

4. VEGETATION CONDITION

4

Comments

• Waterlogged creekline into wetland.

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No 208

Date 30/9/92

14/8/1999

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

• Column 4 identification check											
TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Caciorina obtusa</i> ✓			✓								

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER Na 9

DATE TRIP 30/9/98 RECORDERS NA/MC

DATE TRIP 14/8/1999 RECORDERS NG/GK/AW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norms Map

Road Location Nth Boundary of reserve / Chitimony NR

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

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

Topographic Position	(Circle the correct response)
Upland	Lower slope
Upper slope	Valley
<u>Midslope</u>	Washline

2. SITE DATA Circle the correct response

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	E	SE	S	<u>SW</u>	W	NW
-------	------	---------------	-------	--------	---	----	---	----	---	-----------	---	----

Surface Soil	Sandy loam to sand (grey)	Depth to Rock	waterlogged	Colour
--------------	---------------------------	---------------	-------------	--------

Exposed Rock	type	% surface cover	size range
--------------	------	-----------------	------------

Litter	<2	% surface cover	Depth (cm)
--------	----	-----------------	------------

Bare Ground	<2	% surface cover
-------------	----	-----------------

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

Need Soil sample

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

3. VEGETATION STRUCTURE AND COVER

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

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

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

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

GRASSES		HERBS	SEDGES	over 0.5m		under 0.5m	
LIFE FORM							
COVER CLASS (%)	10-30%		>70%				
DOMINANT SPECIES	louch		Juncus big Juncus small				

4. VEGETATION CONDITION 5

Comments

- Waterlogged SGP has killed woodland replaced by juncus/couch wetland.
- Area with dead trees (poss. *Acacia*)

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

Column 1 plant name

Abc

Record on Sheet

5. SPECIES PRESCENCE

SITE No No 9

Date 30/9/98

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

~~Need Salt~~

Date 30/9/98 14/8/1999				• Column 3 flowering time- tick if species • Column 4 identification check				No FI ID			HERBS (cont.)			No	FI	ID	
TREES				No	FI	ID	SHRUBS (cont.)				No	FI	ID				
MALLEES							GRASSES										
							Carack (Sporobolus virginicus) ✓										
							Dactium rigidum										
							Bromus diandrus										
							Lance Grass (Phleum phalaris)										
SHRUBS							Polygogon monspeliensis (usp) ✓							SEDGES			
ADS Aracia rostrifera														Juncus (acutus) ✓ (usp)			
nearby Aracia tetragynophylla														Juncus 2			

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER NO 10

DATE TRIP 30/9/98 RECORDERS NG / MC

DATE TRIP 14/8/1999 RECORDERS NG / GK / AW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norms Map

Road Location E boundary of reserve 0.8 km from southern boundary / Chilimany NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	<u>NG 7</u>	

Topographic Position	(Circle the correct response)
☒ <u>Upland</u> ☐ Upper slope ☐ Midslope	☐ Lower slope ☐ Valley ☐ Washline

2. SITE DATA Circle the correct response

Slope ☒ <u>flat</u> gentle steep	Aspect <u>N</u> NE E SE S SW W NW
---	---

Surface Soil <u>Deep Yellow Sand</u>	Depth to Rock	Colour

Exposed Rock type	% surface cover	size range

Litter	% surface cover	Depth (cm)

Bare Ground	<u>30</u> % surface cover

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

3. VEGETATION STRUCTURE AND COVER

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

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 (%)		10-30%		10-30%	
DOMINANT SPECIES		Banksia sp.		Corospermum striatum Eremaea sp.	

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
	LIFE FORM				
COVER CLASS (%)			10-30%		
DOMINANT SPECIES			Ecidicola		

4. VEGETATION CONDITION 2

Comments

A few non-invasive weeds

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No NO 10

Date 30/9/98

14/9/1999

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]

ADJ Lupinus cosentini (J50) 14/8

✓ Monofax ^{saracoculus} grades 14/8

Described as NO 11 in O/base as there's two of these

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER NO 12

DATE TRIP 2/10/98 RECORDERS NA/MC

DATE TRIP 14/8/1999 RECORDERS NG/GK/AW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See Norms Map

Road Location Ogalline West Rd.

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

Photograph	Name <u>NG 14</u>	Number
------------	-------------------	--------

Topographic Position	(Circle the correct response)
Upland	Lower slope
<u>Upper slope</u>	Valley
Midslope	Washline

2. SITE DATA Circle the correct response

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	<u>E</u>	S	SW	W	NW
-------	------	---------------	-------	--------	---	----	----------	---	----	---	----

Surface Soil	<u>Deep Red Sand</u>	Depth to Rock	Colour
--------------	----------------------	---------------	--------

Exposed Rock	type	—	% surface cover	size range
--------------	------	---	-----------------	------------

Litter	20	% surface cover	Depth (cm)	<u>up to 30 cm</u>
--------	----	-----------------	------------	--------------------

Bare Ground	20-30	% surface 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					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		>70% (orig)	30-70%		
DOMINANT SPECIES		<i>Acacia spatulata</i> <i>Acacia rostrulata</i> <i>Grevillea aspropalla</i>	<i>Oleica axillaris</i> <i>Acacia spatulata</i>		
GRASSES					
	HERBS		SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

4. VEGETATION CONDITION 2

Comments

Quadrat located in regenerating area
Close by is a mature *Acacia rostellifera* woodland

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 No 11

Record on Sheet

- Column 1 plant name

Date 2/10/98

- Column 2 plant number

14 / 8 / 1999

• **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
								Hypocheris glabra			
								Calandrinia sp. 2 (small)			
								Trachymene pilosa	vsp		
MALLEES											
				GRASSES							
				Stipa triophylla							
				Stipa elegantissima							
				Oenothera myuros							
				Bromus diandrus							
				small annual Archata =							
				Ehrharta longiflora	14/8						
SHRUBS								SEDGES			
Acacia catenulata (spathulata) ✓								Dioscorea hastifolia	14		
Acacia rostrulata (rostelligera) ✓								Lawrenciella rosea	14		
Cassipoula agrophylloides (argyrophylloides) vsp ✓								Calandrinia longicauda	14	SSP	broad
Olearia axillaris ✓								Hybanthus floribundus	14/8		
Hibbertia ? entropogonoides ✓								Paranthera microphylla	14/8		
Phyllanthus calceagnus ✓								Bulbine semibarbata	14		
Myoporum sp. aff. cynophyllum ✓								Clematocissus angust	14/8		
Ryagadia decurva ✓								Stylobasium spatul	14/8		
Aulxia buxifolia ✓								Pimelea microcephala	14/8		
Hybanthus floribundus florib ✓ vsp								Trielochin calcitrapa	14/8		
				HERBS				Anastallis ervensis	14/8		
				Watzei fitzgeraldi ✓				Erodium cygnorum	14/8		
				Trachymene (Ginseng/elachocarpa) vsp ✓				Isolepis marg	14/8		
				Brassica tenartii ✓				Thysanotus spaters	14/8		
				Asclepiadace (limber) = Dioscorea hast ✓				Calandrinia II (linifl)	14/8		vsp
				aff strawberry = Clematocissus angust ✓				" " (corrig)	14/8		vsp
				Antine Whalenberg; a preissii ✓				Silene nocturna	14/8		vsp
				Calandrinia sp. petals yellow on back							
				Brachycome sp.							
				Wattzia citrinea							
				Pimelea microcephala							
				Ptilotus apodichnoides							
				Crassula ciliarata var acuminata ✓							
				Lawrenciella davyana ✓							
				Lawrenciella							

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton **SITE NUMBER** No 12
DATE TRIP 1/10/98 **RECORDERS** NG / MC
DATE TRIP 14/8/99 **RECORDERS** NS/GH/AW
DATE TRIP _____ **RECORDERS** _____

1. LOCATION of the QUADRAT

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

See Norms Map

Road Location Yeruna Springs Rd / Yerina Swamp NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	<u>NG 13</u>	

Topographic Position	(Circle the correct response)	
Upland	<u>Edge of broad</u>	<u>Valley</u>
Upper slope	Lower slope	Washline
Midslope		

2. SITE DATA Circle the correct response

Slope	Aspect
flat <u>gentle</u> steep	N <u>NE</u> E SE S SW W NW

Surface Soil	Depth to Rock	Colour
<u>Dark grey sand to 5cm</u> <u>Deep grey sand</u>		

Exposed Rock	% surface cover	size range
type —		

Litter	% surface cover	Depth (cm)
	<u>2</u>	

Bare Ground	% surface cover
—	

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 (%)					
DOMINANT SPECIES					

	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	<2%			2-10%	30-70%
DOMINANT SPECIES	<i>Nuytia floribunda</i>			<i>Adiantum sp.</i>	<i>Banksia thelemeniara</i> <i>Hypocalymma longifolia</i>

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

4. VEGETATION CONDITION 3

Comments

Nuytias + *Banksias* ~~are~~ dying further down slope due to water logging.

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No NO 12

Date 1/10/98

1418199

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

Record on Sheet

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

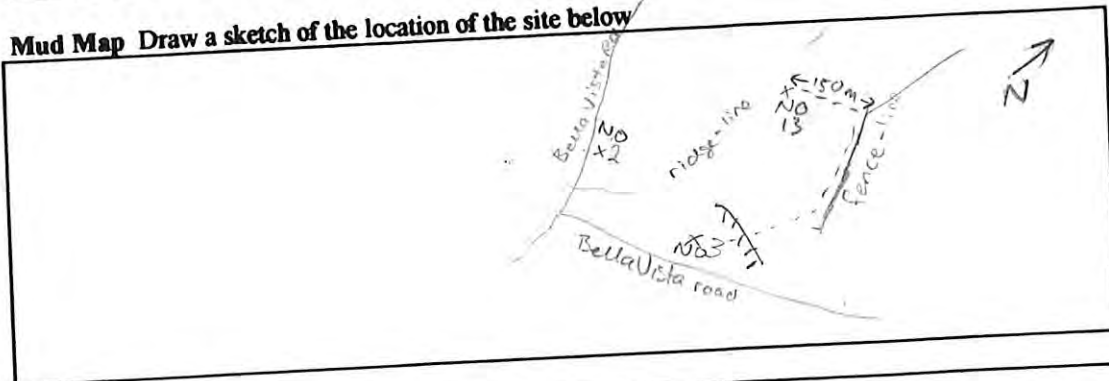
[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER NO 13
 DATE TRIP 1/10/98 RECORDERS NG / MC
 DATE TRIP 14/8/1999 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 28° 32' 41.2" S Longitude 114° 39' 49.1" E Altitude
 GPS Accuracy 3.4
 Map Sheet

Photograph Name NG 11 Number
 (Circle the correct response)

Topographic Position
 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 Hard setting clay of unknown depth with surface gravel Depth to Rock Colour

Exposed Rock type 0 % surface cover size range
but lots of gravel + rubble on surface

Litter < 2% % surface cover Depth (cm)

Bare Ground 10 % surface cover

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

AmG
 271413
 6840209

Gravel
 ? ↓

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

3. VEGETATION STRUCTURE AND COVER

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

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

TREES				MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					>70%
DOMINANT SPECIES					<i>Callitriche</i> sp.
					<i>Verticordia cyranilla</i>
					<i>Metalepna</i> sp.
					<i>Leucopogon</i> sp.
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

4. VEGETATION CONDITION

1-2

Comments

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No No 13

Date 1/10/98

14/9/1999

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

of Bit late for mos

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

of Bit late for most herbs

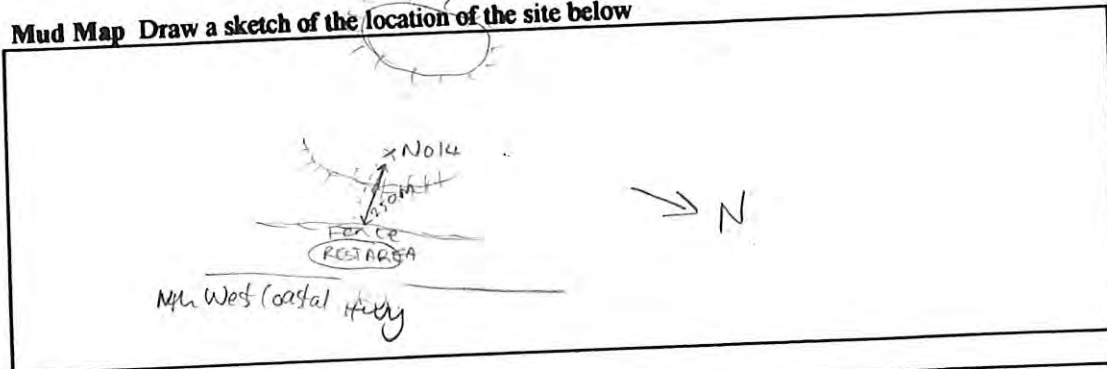
[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER No 14
 DATE TRIP 1/10/98 RECORDERS NA/MC
 DATE TRIP 14/8/1999 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 North West Coastal Hwy.

Geographic Location Latitude 28° 28' 41.4" S Longitude 114° 37' 57.2" E Altitude
 GPS Accuracy 3.0
 Map Sheet

Photograph Name NA 12 Number

Topographic Position

Upland
 Upper slope
 Midslope

Shelf toward top
 of ridge

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 Brown Sandy Loam Depth to Rock Colour

to 10cm over massive sandstone with some outcropping in plot

Exposed Rock type sandstone % surface cover <2% size range

Litter 5% % surface cover Depth (cm)

Bare Ground 5 % surface cover

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

AMG
 268225
 6847532

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.

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 (%)					>70%
DOMINANT SPECIES					<i>Melaleuca</i> sp. <i>Verticordia crassifolia</i> <i>Petrophile</i> sp.

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

4. VEGETATION CONDITION

Comments

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No No 14

Date 1/10/98

14/8/1999

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

Flies!

[illegible]

Acacia ulicina //
// vsp scholtzia ciliata - 14/8

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER No 15

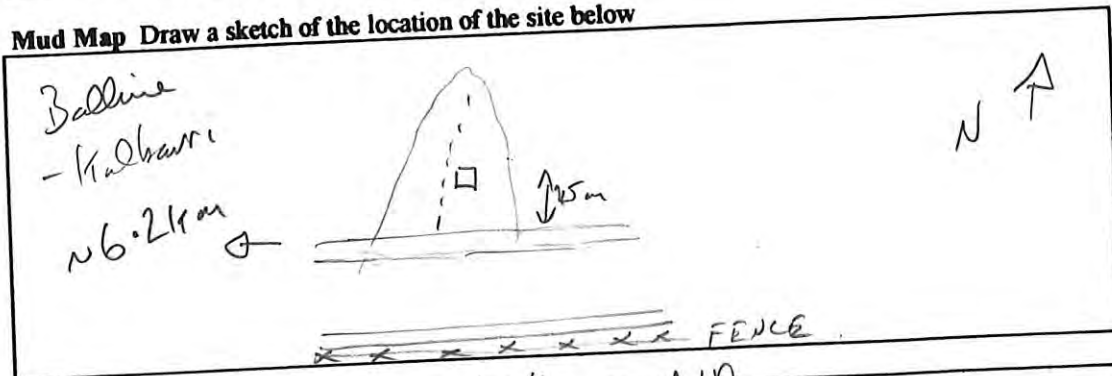
DATE TRIP 2/10/98 RECORDERS NA / MC

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location

Kalbarri NP.

Geographic Location

Latitude 25° 53' 17.8" S Longitude 114° 13' 03" E Altitude
GPS Accuracy 2.6
Map Sheet

Photograph

Name NA 15 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 dark brown to 10cm Depth to Rock Dark Grey (rock) Colour

Exposed Rock type — % surface cover size range

Litter 5 % surface cover Depth (cm)

Bare Ground 5 % surface cover

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

AMG 226097
6912052

27° 53' 16.3"
114° 13' 7.6"

Need
GPS
fix.

Siltstone
?

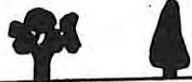
✓
AMG off map
226200
6912100

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%
-------------	-------	--------	----------	----------

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 (%)					>70%
DOMINANT SPECIES					Melaleuca uncinata Melaleuca sp.

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

4. VEGETATION CONDITION 1-2

Comments

Comments
Every letter finished

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

5. SPECIES PRESCENCE

Record on Sheet

SITE No No 15

Date 2/10/98

some early annuals
finished

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

[illegible]

pilosa
-mutica



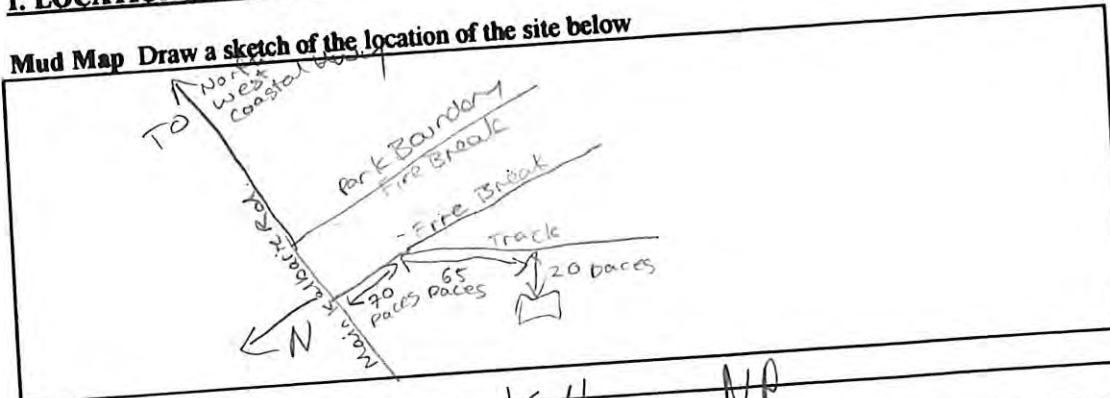
NOT IN THE FILE

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER NA 16
 DATE TRIP 2/10/99 RECORDERS NA / MC
 DATE TRIP 14/8/99 RECORDERS GK/NG/AN
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location

Kalbarri NP.

Geographic Location

Latitude 27° 53' 28.4" S
 GPS
 Map Sheet

Longitude 114° 32' 16.9" E Altitude
 Accuracy 4.0

Photograph

Name NA 16

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 Deep Yellow Depth to Rock

Colour

Exposed Rock type — % surface cover

size range

Litter % surface cover

Depth (cm)

Bare Ground % surface cover

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

Comments

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

plant's name or working name if required

5. SPECIES PRESCENCE

SITE No No 16

Date 2/10/96

14/8 7 1999

Label each plant with plants number, site code, date and
Record on Sheet

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

14/8 ady
milloia

SITE No		No 16		flowering time- TICK if species flowering		No		FI		ID		HERBS (cont.)		No		FI		ID					
Date		2/10/97		identification check																			
14/4 7 1999																							
TREES		No		FI		ID		SHRUBS (cont.)		No		FI		ID		HERBS (cont.)		No		FI		ID	
Banksia (parviflora = sceptra)								14/8															

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER NO 17

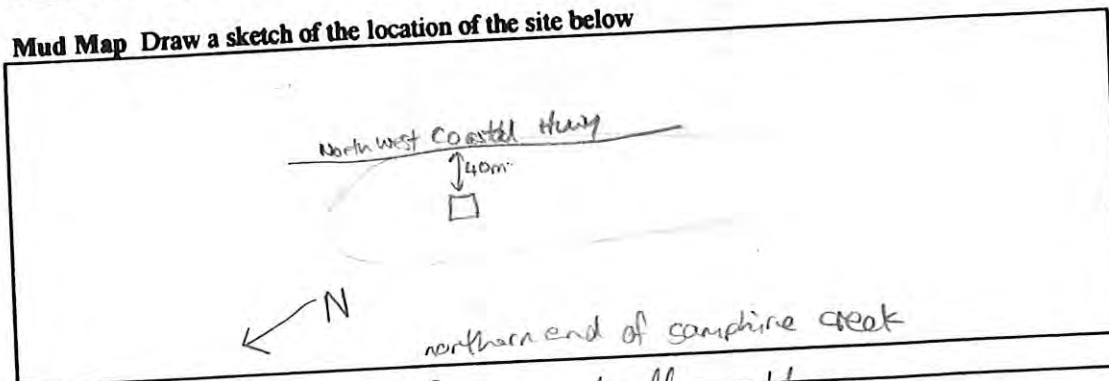
DATE TRIP 3/10/98 RECORDERS NG / MC

DATE TRIP 14/8/99 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

Great Northern Hwy.

Geographic Location

Latitude 28°03'35.9" S Longitude 114°40'07.6 E Altitude 330 m
GPS Accuracy 3.2
Map Sheet

Photograph

Name NG 17

Number

Topographic Position

Upland
Upper slope
Midslope

Lower slope
Valley
Washline

(Circle the correct response)

(creek line)

2. SITE DATA Circle the correct response

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

Surface Soil 30cm of Red Clay over grey sand Depth to Rock Colour

Exposed Rock type % surface cover size range

Litter 2-10 % surface cover Depth (cm)

Bare Ground <2% % surface cover

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

AMG
270879
6893950

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 the form, cover class (see below)					
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 (%)					>70%
DOMINANT SPECIES					<i>Halosarcia halochrysa</i> <i>Halosarcia indica</i> <i>Blue Sophora</i>
GRASSES		HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

4. VEGETATION CONDITION 2-3

Comments

secondary samphire
Halosarcia halochrysinoides is dying

most samphires dead from flooding 14/8/99

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No NO 17

Date 3/10/98

124 / 8 / 99

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

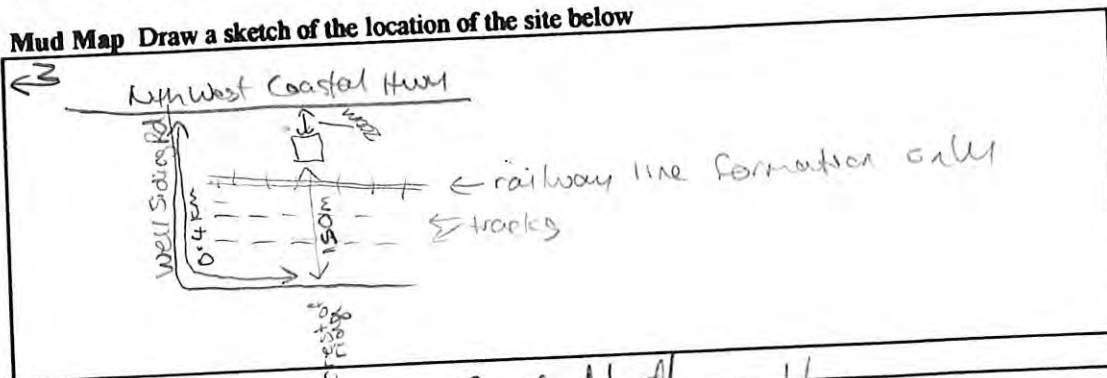
[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Northampton SITE NUMBER No 18
 DATE TRIP 3/10/98 RECORDERS NG / M /
 DATE TRIP 14/8/1999 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

Great Northern Hwy

Geographic Location

Latitude 28° 10' 14.5 S

Longitude 114° 38' 43.8 E

Altitude 330m

GPS

Accuracy 2.1

Map Sheet

Photograph

Name NG 18

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

thin brown clay over laterite

Depth to Rock

Colour

Exposed Rock

type

% surface cover

size range

Litter

15

% surface cover

Depth (cm)

Bare Ground

20

% surface cover

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

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

3. VEGETATION STRUCTURE AND COVER

3. VEGETATION STRUCTURE AND COVER

Record	appropriate time term	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 (%)			> 70%		
DOMINANT SPECIES			Melaleuca uncinata Peltandra sp.		

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10-30%			
DOMINANT SPECIES		Boreea sp.			

4. VEGETATION CONDITION 3

Comments

next to old railway line
narrow reserve about 500m wide with
3 roads + railway line running through

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

Record on Sheet

SITE No No 18

Date 3/10/98

14/8/99

Most early Verbs finished

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

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA NO (Northampton) SITE NUMBER 19

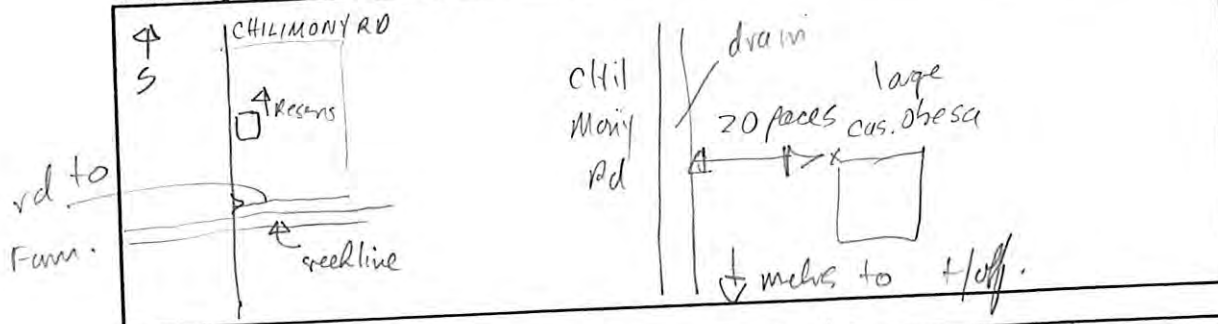
DATE TRIP 28-10-1998 RECORDERS NG/GK

DATE TRIP 14/8/1999 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

Chilimony Rd

Geographic Location

Latitude 28 04 19.0S Longitude 114 33 48.5E Altitude
GPS Accuracy 2.6
Map Sheet

Photograph

Name NG

Number

2

Topographic Position

Upland

Upper slope

Midslope

seep.

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

?

Colour

grey

Exposed Rock

type

NONE % surface cover

NONE

size range

Litter

twigs, stems % surface cover

30/50

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.

TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		2-10			30m
DOMINANT SPECIES		<i>Cas. obesa</i>			10m
SHRUBS					SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			10/30		2
DOMINANT SPECIES			<i>Exomala</i> <i>Melaleuca</i>		<i>Frankenia</i>
GRASSES		HERBS	SEDGES		
			over 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	2/10	30	30/50		1m
DOMINANT SPECIES	<i>Polygala</i>	<i>Cotula coronop</i> <i>Trigl. mucronata</i>	<i>Juncus acutus</i>		

4. VEGETATION CONDITION

Comments

poor
- waterflow $\uparrow$, *Tumulus acutus* invading

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No NO 19

Date 28 - 10 - 1998

14-8-1999

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

Mela-leuca
dumosa

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

name if required
Melaleuca + Calothamnus
dying: more since 1998

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA ND (Northampton) SITE NUMBER 20

DATE TRIP 28/10/1998 RECORDERS NG/GK

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

See NG field book.

incorrect GPS
need
rescore

Road Location HUTT LAGOON

Geographic Location Latitude 28° 05' 14.7" S Longitude 114° 11' 15.1" E Altitude 312
GPS Accuracy
Map Sheet

Photograph Name NG Number 3

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

2. SITE DATA Circle the correct response

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

Surface Soil sand Depth to Rock 0 Colour dark brown

Exposed Rock type _____ % surface cover _____ size range _____

Litter 1/4, twigs % surface cover 30/50 Depth (cm) 2-15

Bare Ground % surface cover 0/10

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

28° 5' 19.3"
114° 12' 8.8"

AMG fix
off map
225100
6889800

2
9

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.

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 (%)	50/70		30/50	30	50/70 implex
DOMINANT SPECIES	<i>Acacia costellif</i>		<i>Anthox. littorea</i> <i>Pimelea microc</i> <i>Alogyne</i> <i>stylob. spath</i>	<i>Enchyl. tom</i> <i>Olearia ax</i> <i>Rhagodia. d</i>	<i>Tetragon. dedm</i>

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30	2/10			
DOMINANT SPECIES	<i>Ehrharta brevif</i> <i>Stipa flav</i>	<i>Lobelia hetero</i> <i>Whitizia suav</i>			

4. VEGETATION CONDITION

Comments

very good - grazed in past
same grassy weeds

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No 110 20

Date 28 - 10 - 1998

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

• Column 4 identification check											
TREES			SHRUBS (cont.)			HERBS (cont.)			No	FI	ID

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA NO (Northampton) SITE NUMBER 21

DATE TRIP 28-10-98 RECORDERS GTH/NS

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location HUT LAGOON

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name <u>NS</u>	Number <u>4</u>
------------	----------------	-----------------

Topographic Position	(Circle the correct response)
Upland Upper slope Midslope	Lower slope <u>Valley</u> Washline

2. SITE DATA Circle the correct response

Slope	<u>flat</u>	gentle	steep	Aspect N NE E SE S SW W NW
-------	-------------	--------	-------	----------------------------

Surface Soil	Brown CLAY	Depth to Rock	Colour
--------------	------------	---------------	--------

Exposed Rock	type	—	% surface cover	size range
--------------	------	---	-----------------	------------

Litter	TWIGS	<20	% surface cover	Depth (cm)
--------	-------	-----	-----------------	------------

Bare Ground	2-10	% surface cover)
-------------	------	------------------

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

28° 5' 22.2"
 114° 11' 50.4"

AMG fix
 off map
 224600
 6889700

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

3. VEGETATION STRUCTURE AND COVER

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

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

TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					70-90
DOMINANT SPECIES					Heul hyl Acacia anura Scaevola quin
GRASSES		HERBS	SEDGES		
			over 0.5m	under 0.5m	
LIFE FORM					
COVER CLASS (%)			12	12	
DOMINANT SPECIES			Galium	Tamus hians	

4. VEGETATION CONDITION

Comments

Excellent

Wilsonia humilis

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

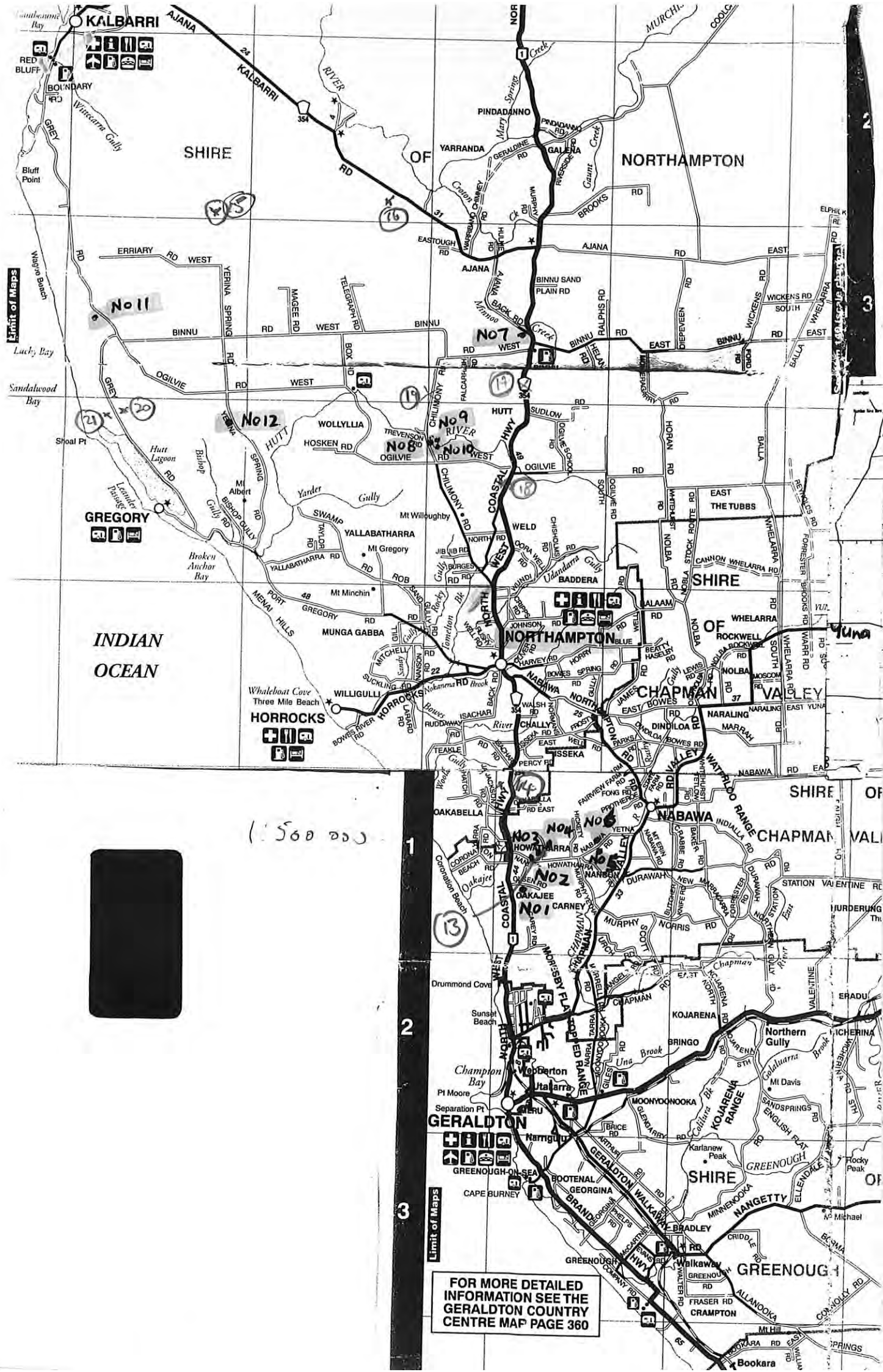
SITE No	11021
Date	28-10-1998

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]



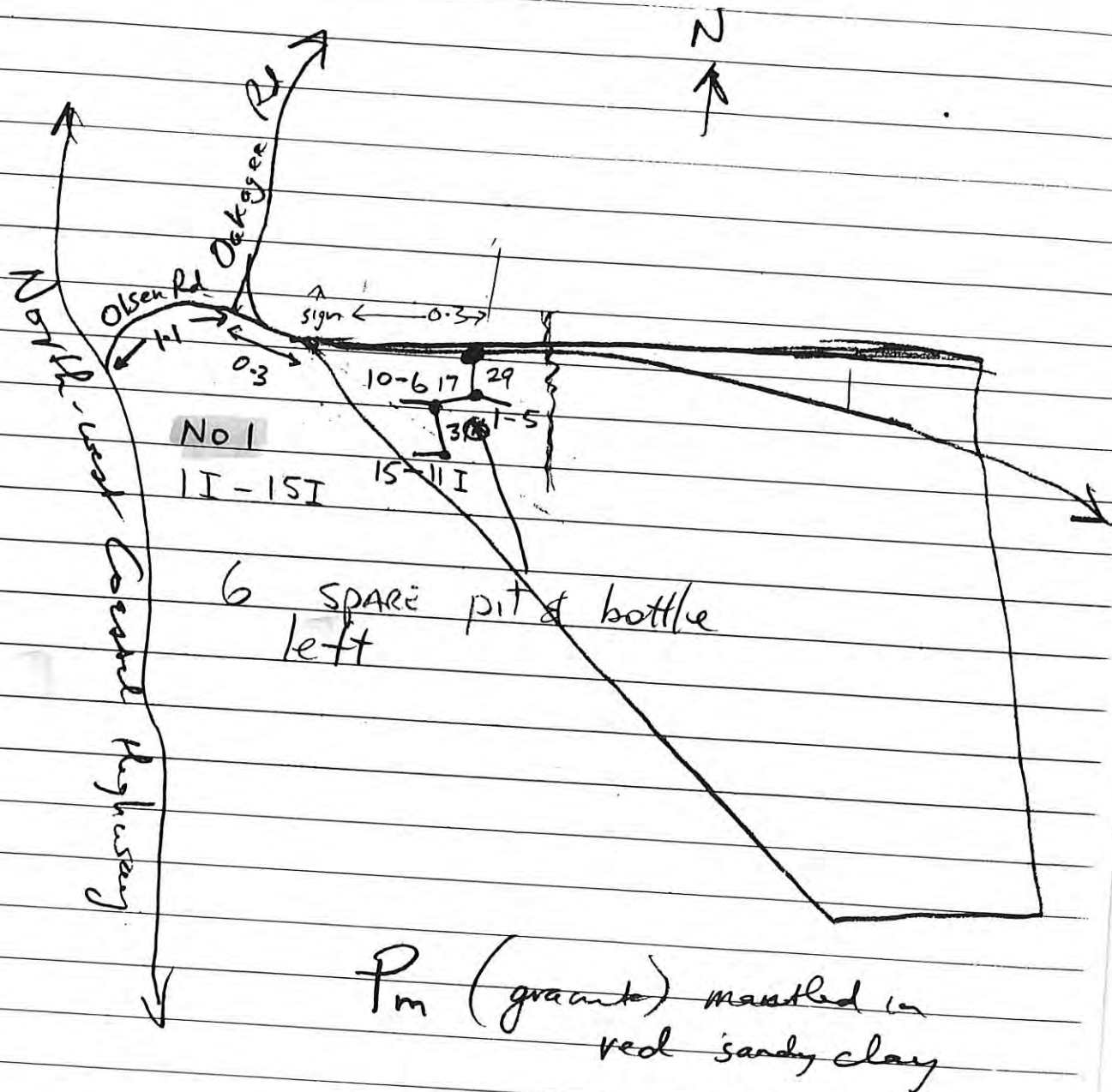
Limit of Maps

1:500,000

1
2
3

FOR MORE DETAILED
INFORMATION SEE THE
GERALDTON COUNTRY
CENTRE MAP PAGE 360

Band 1 Northampton survey data
 26 km S of Northampton Oakajee NR



28° 34' 10.6" S
 114° 38' 30.3" E
 Pdsp 3.0

Jam LO Woodland
 Acacia tetragona phylla
 Grevillea pinaster
 Senna nemophila
 Amphipogon
 Borhica
 Herbs

BAND 1

Northampton Swamps Area

23 k S of Northampton



C25 (Grey sand slope next to swamps)

Banksia menziesii woodland

Nyctea floribunda

Xanthorrhoea preissii

Allocasuarina humilis

Stirlingia latifolia

28° 32' 16.8" S

114° 40' 12.9" E

Pdop = 3.1

BRING ALUM FENCES

GH - 75H

left in bush

NO 3

Bella Vista Road

0.9

10.3 k

10.2 k

1.4 km

300m

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

1.1

Bella Vista NR.

53-60 have bottle hidden under scrub

NO 2

76H - 90H

To be put in pits left in bush

Rawortharra NR

NO 2

Pm (mid slope) - colluvium in tiny gullies

Dense Scrub: *Eucalyptus* cf *redunca* (mallee)

Calothamnus quadrifida

Melaleuca megacephala

28° 32' 51.2" S

114° 39' 40.9" E

Pdop = 3.0

NO 3

Jurassic Sandstone

Jm (Top + edge slope) Brown gritty sandy clay & siltstone

emergent *Nyctea* over shrubland

Melaleuca megacephala

Verticordia

Grevillea pinnatifida

28° 32' 45.4" S

114° 39' 56.3" E

Pdop = 3.0

11/12/ Bond 1 Northampton Survey Area
5 km SW of Nabawa.

C2s

Yellow Sand slope

Banksia prionotes

Allocasuarina campestris

Xanthorrhoea preissleri

Hubbertia hypericoides

Calothamnus sp.

Allocasuarina hemiata etc

28° 31' 56.6" S

114° 44' 18.1" E

Pdop = 3.2

1 16-20 H
2 21-25 H
3 26-30 H

NO 6

NO 5

(to be drilled
- pits & nets left here
27 Jul 98)

Shore ↑

Nabawa - Yeta Rd

Nabawa - Nebbawa Rd

Murphy - Yeta Rd

C21

scattered *Casuarina campestris*
clump

Low shrubland of

Dryandra aschbergii

D. fraseri

Hakea auriculata

Nemcia

Hubbertia hypericoides

28° 32' 07.4" S

114° 44' 07.3" E

Pdop = 3.1

4 BAND 1

Northampton Survey Area

Gov't ↑ 39 k N of Northampton

+ 6 k NW of Binnu

+ 13 k S of Ajana

~~below~~
Cze ~~over~~ Pmm (shallow)

York Gum floor

Acacia acuminata
Eremophila alterniflora
Dodonaea inaequalis
Eucalyptus tomentosa

grasses + herbs
+ weeds

Brown loam/clay
over granite

27° 59' 56.7" S

114° 37' 55.3" E

Phop = 2.5

164-306

No 7

256 21 16 13 20 26 30

1.3 k

5.45

Ajana Back Road

Hwy

Bin
Ext
Rc

Quibin Tio

7/4/81 BBN

No

Northampton dunes area

Chilmony NP (27k NNW of Northampton)

C2S

Yellow Sandplain
at high level
(above Pm)

$28^{\circ} 06' 09.4'' S$
 $114^{\circ} 34' 09.4'' E$

Pdop = 2.9

91H-15H

NO 9

0.7k

Shouldland = emergent
Banksia of Victoria shrubs

NO JARS

76G-90G

NO 10

Melaleuca acerosa (4/8)

Allocasuarina campestris

Plectrocarpa

Podocarpus

No 8

61G-75G

7km Pm

NO JARS

Woody Pm

Chilmony Rd

Ogilvie West Rd

Salting

Swamp in C2C

Brown sandy clay

Casuarina obesa fringing forest

Juncus acutus

Herbs, grasses & weeds

$28^{\circ} 06' 11.4'' S$

$114^{\circ} 33' 19.4'' E$

Pdop = 2.1

$28^{\circ} 05' 58.3'' S$

$114^{\circ} 33' 42.9'' E$

Pdop = 2.7

Salted

C2S seepage (yellow sand)

Salted

Acacia rostellifera / *Scrib*
+ Dead *Banksia* Victor

Juncus acutus (invaded)

Sporobolus ? *virginicus*
(salt water couch
20% invasion)

Band 1

Northampton survey area

Shire Reserve

15 k N of Hutt Lagoon + 4 k
from coast

Red-brown sand dune mantling @pc

Acacia rostellata
tall shrub

Grevillea argyrophylla

Pinus microcephala

Olearia exellaris

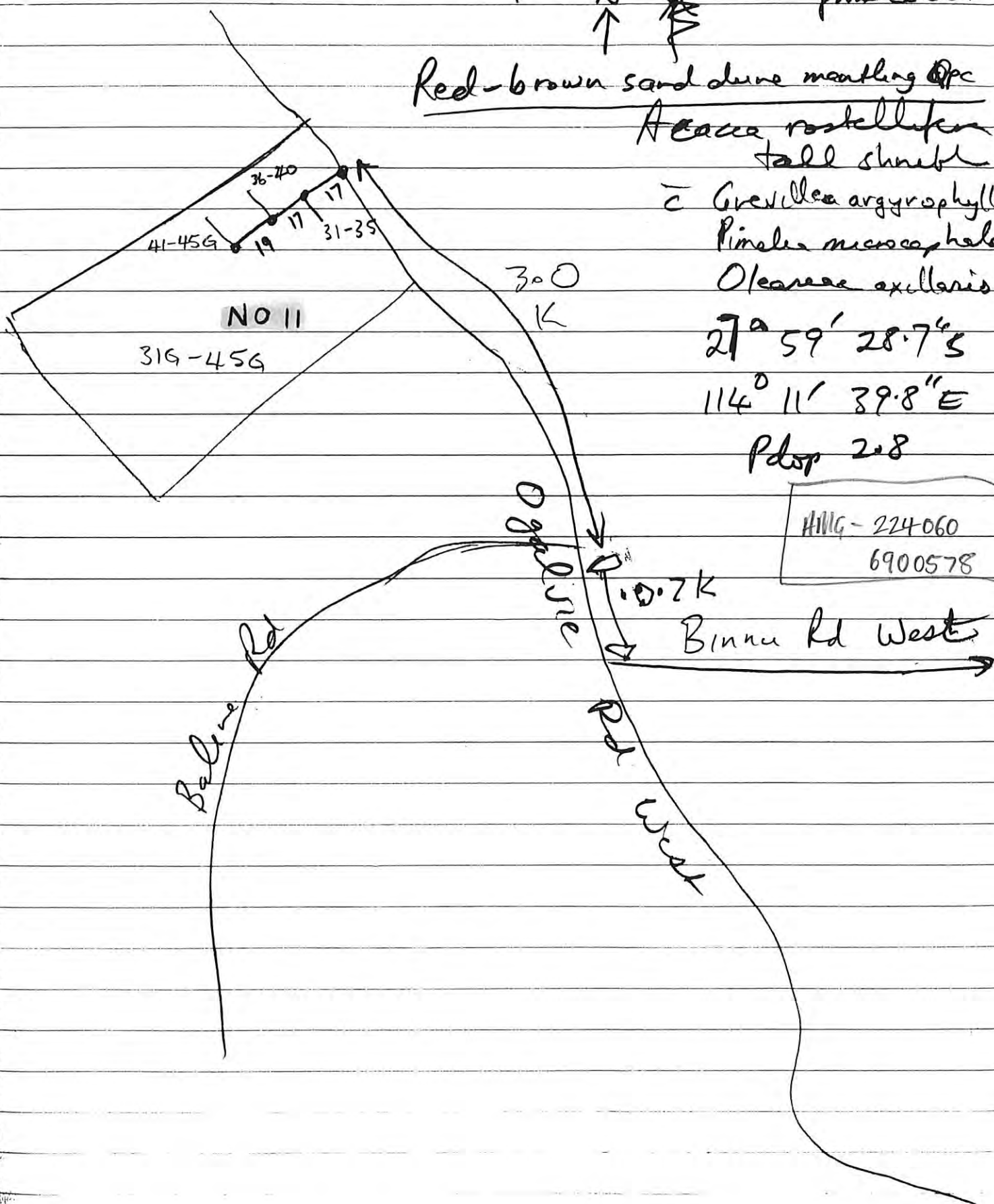
$27^{\circ} 59' 28.7'' S$

$114^{\circ} 11' 39.8'' E$

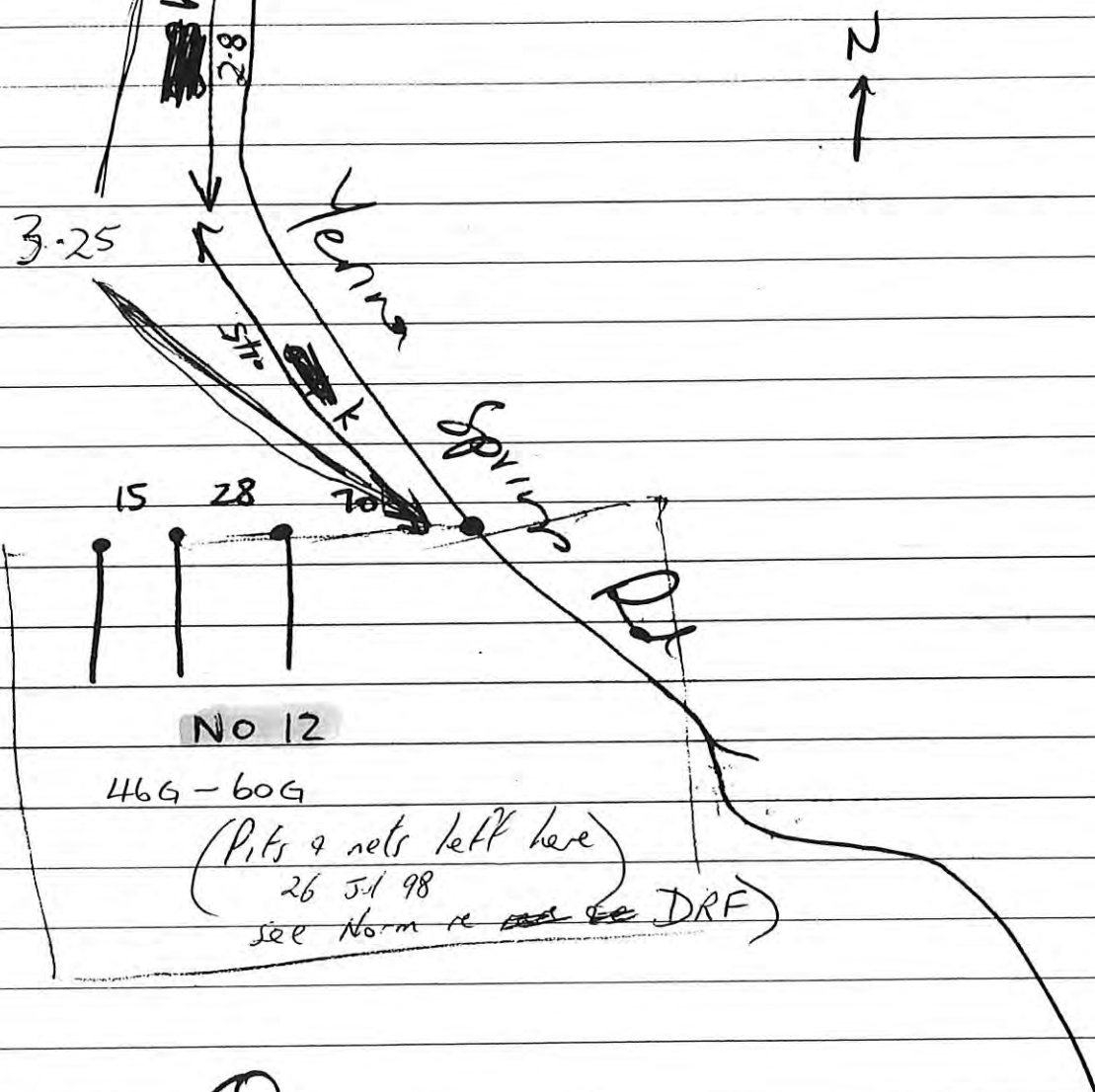
Pdop 2.8

HVIC-224060

6900578



15 28 70 BTHD 1 Northampton Survey Area
10 km West of Hutt Lagoon
Ogilvie Rd West Yerrina Swamp Nature Reserve



Swamp Q

Dark Grey Loamy Sand
(in White Sandplain)

28° 06' 08.9" S
114° 20' 06.3" E

Banksia telmattica to 1m
over 0.5m dense sedges

ldop = 1.9

emergent *Nyctea flabellifera*