

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

QU22

BUSHLAND AREA Charles Gardner NR SITE NUMBER C9 01
 DATE TRIP 20-9-2008 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

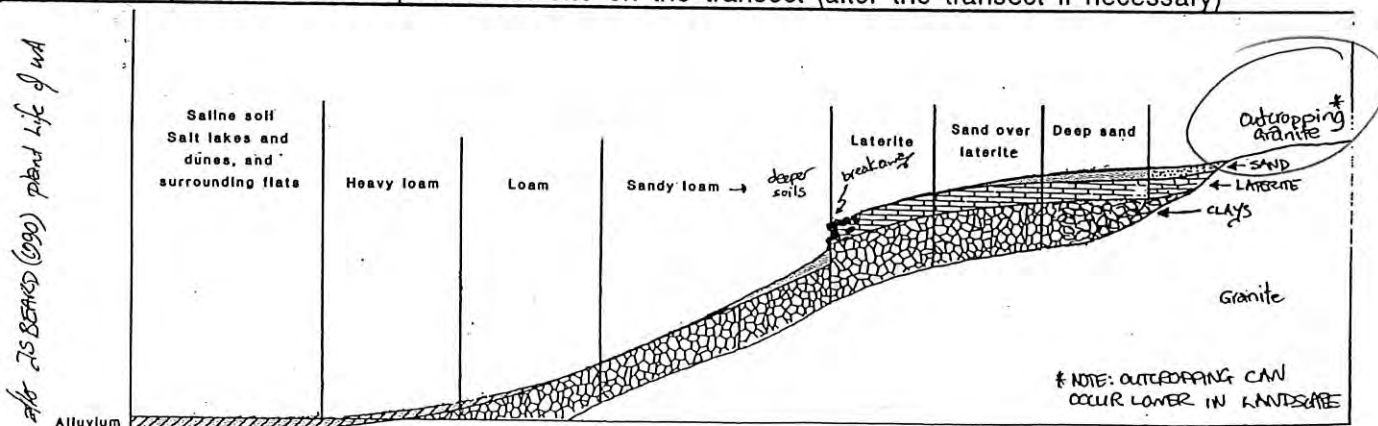


Road Location

Geographic Location Latitude 31°47'54.5" S Longitude 117°28'07.8" E Altitude _____
 Reference Map _____

Photograph Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	<u>E</u>	SE	S	SW	W	NW	
Surface Soil	<u>loam</u>			Colour	<u>brown</u>								
Exposed rock	type			% surface									
Sub-surface Soil	<u>granite</u>			Colour									
Rock	type			depth to rock	<u>10 cm</u>								
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring					
Litter	<u>twigs</u>	% cover	<u>10</u>	Bare Ground	<u>50</u>	% cover							
	Depth	<u>2-10</u>	cm										

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			 			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 (%)							
DOMINANT SPECIES							
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM	 	 	 			1m	
COVER CLASS (%)	10-30	>70					
DOMINANT SPECIES	<i>Avena barbata</i>	<i>Burra nitida</i> " <i>constricta</i>					

4. VEGETATION CONDITION

Comments

very good

QU22

CHARLES GARDNER					
Site No. 1				Date Assessed	
G: Granite rock surface, Herbs				15-Sep-98	
Coll.No.	ID Name	Ht	% A	% D	
	*Avena barbata	30	15		
	*Briza maxima	15	0.5		
CG001.07	*Crassula nutans	3	0.01		
	*Eriodium botrys	2	0.01		
	*Hypochaeris glabra	10	0.5		
CG001.09	*Parentucellia latifolia	15	0.5		
	*Trifolium subterraneum	5	3		
	*Ursinia anthemoides	15	0.1		
CG001.02	*Vulpia bromoides	10	0.5		
CG001.08	Aizoaceae sp.	0.5	0.01		
CG001.14	Austrodanthonia setacea	10	0.01		0.02
	Borya sphaerocephala nitida	15	65		
	Cheilanthes sieberi	15	5		
	Crassula colorata	3	2		
CG001.01	Crassula colorata var. colorata	3	1		
CG001.03	Drosera erythrorhiza	1	1		
CG001.05	Drosera pyenoblasta glanduligera	5	0.1		
CG001.13	Drosera subhirtella	T	0.01		
CG001.11	Leporella fimbriata delto	10	0.01		
CG001.12	Phylloglossum drummondii	2	0.01		
	Podolepis lessonii	20	0.5		
CG001.04	Prasophyllum gracile	15	0.01		
	Ptilotus polystachyus	40	0.05		1
CG001.10	Rhodanthe venustum Hyalostema glut	25	1.5		
CG001.06	Stylidium obtusatum sp.	2	0.1		
	Stylidium calcaratum ecomm-e	6	2		
	Thelymitra antennifera	20	0.5		
	Cheilanthes austro				
	Hyalosp glutinosa glutinosa				
	Aira caryophyll				
	Drosera rostrillata				
	Spicaea ciliata				
	Thelym flexuosa				
	Aristida contort				
	Eriachne ovata				
	Ophioglossum (lusitan) ceriac				

Erriachne ovata

check

check

Bryon constraints added from cover sheet.

Eriodinium cygnorum

Podotrochea gnaph

Drosera glandul

Centrolepis pilosa

Brachycome gland Repasula

Centrolepis ? mutica drummondiana

Austrostipa

Crassula decumbens decumbens

Rutidosia multiflora

Quinetia urvill

Wurmbea stenella

Centrolepis polysyn

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

QU23

BUSHLAND AREA Charles Gardens NR SITE NUMBER CG 2
 DATE TRIP 21-9-2000 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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



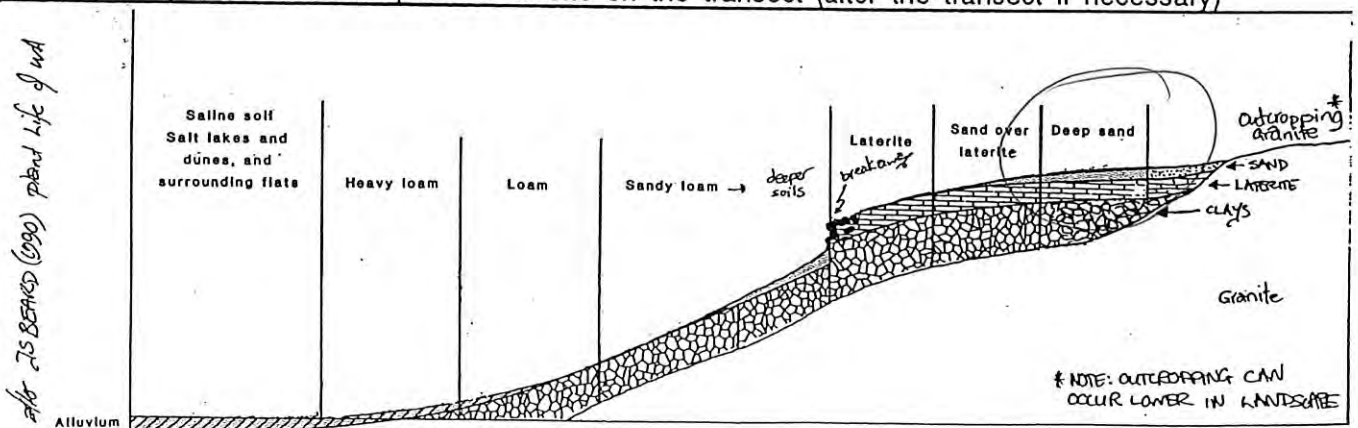
Road Location

Geographic Location Latitude S Longitude E Altitude

Reference Map 31° 47' 40.3" 117° 27' 48.6"

Photograph Photographer's Name Photo No

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope	flat	<u>gentle</u>	steep	Aspect	N	<u>NE</u>	E	SE	S	SW	W	NW
Surface Soil	<u>sandy clay</u>						Colour	<u>yellow</u>				
Exposed rock	type						% surface					
Sub-surface Soil	<u>sandy clay</u>						Colour	<u>yellow</u>				
Rock	type						depth to rock					
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>WS, twigs</u>		% cover	<u>10/30</u>		Bare Ground	<u>50</u>		% cover			
	Depth	<u>2-5</u>		cm								

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			Cover Class	
		2-10%	10-30%	30-70%	over 70%	
TREES						
		over 15m	5-15m	under 5m	MALLEES	
					over 8m	under 8m
LIFE FORM				 		
COVER CLASS (%)						
DOMINANT SPECIES						
SHRUBS						
		over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	SHRUBS
						under 0.5m
LIFE FORM		 				
COVER CLASS (%)		Scattered				2-10
DOMINANT SPECIES		<i>Alloc. laeva</i> <i>Ac. merrinthoph</i> <i>Grev. eriostr</i>				Damp olig <i>Mel. kpathu</i>
GRASSES						
			HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM		 		 		  
COVER CLASS (%)		2-10	10-30			30-70
DOMINANT SPECIES		<i>Amph. strict</i>	<i>Borja const</i>			<i>Mesom. pries</i>

4. VEGETATION CONDITION

Comments

excellent
? fire effect

QU23

CHARLES GARDNER				
Site No. 2		Date Assessed		
S: <i>Mesomelaena preissii</i> Low Sedges		15-Sep-98		
Coll.No.	ID Name	Ht	% A	% D
	* <i>Hypochaeris glabra</i>	15	0.01	✓
CG002.08	* <i>Spergularia diandra</i>	1	0.01	
CG002.05	* <i>Vulpia bromoides</i>	15	0.5	
CG002.02	<i>Amphipogon caricinus</i>	30	1	
	<i>Astroloma serratifolium</i>	10	0.01	
	<i>Baeckia crispiflora</i>	20	0.01	
	<i>Borya sphaerocephala</i> <i>constricta</i>	10	5	
CG002.01	<i>Comesperma volubile</i>	T	0.01	
CG002.04	<i>Dampiera candicans</i>	20	0.01	
	<i>Dampiera lavandulacea</i>	35	0.1	
	<i>Dampiera oligophylla</i>	25	0.5	
	<i>Drosera macrantha</i>	T	0.05	
CG002.10	<i>Drosera menziesii</i>	1	0.01	
CG002.09	<i>Gnephosis</i> sp.	1	0.5	
	~~<i>Hibbertia uncinata</i>~~ <i>rostellata</i>	30	0.5	✓
CG002.03	<i>Jacksonia condensata</i>	15	0.1	
	~~<i>Laxmannia grandiflora</i>~~ <i>omni-fertilis</i>	15	0.1	
CG002.12	<i>Lepidobolus chaetocephalus</i>	20	1.5	✓
CG002.07	~~<i>Lomandra mucronata</i>~~ <i>Low alt. suavis</i>	20	0.01	✓
	<i>Melaleuca leptospermoides</i>	30	1	
	<i>Mesomelaena preissii</i>	40	75	✓
CG002.14	<i>Microcorys</i> sp. <i>Platysace</i> ? <i>effusa</i>	15	0.01	
	<i>Neurachne alopecuroidea</i>	20	0.5	✓
	<i>Opercularia vaginata</i>	20	0.5	✓
	<i>Psammomoya choretroides</i>	30	0.1	✓
CG002.06	<i>Stylidium piliferum</i>	20	0.01	✓
	<i>Trachymene cyanopetala</i>	5	0.05	✓
CG002.11	~~<i>Trymalium ledifolium</i>~~ var. <i>rosmarinifolium</i>	15	0.01	
CG002.13	<i>Verticordia chrysantha</i>	40	0.01	
	<i>Verticordia picta</i>	30	0.01	
	<i>Schoenus calceatus</i>			
	" <i>clandestinus</i>			
	<i>Cryptandra leucop</i>			
	<i>Podolepis lessonii</i>			
	<i>Gnephosis tenuis/pusilla</i>			
	<i>Stenanthemum</i> (adj)			

Cryptandra
sp.

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

QU24

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG 03
 DATE TRIP 21-9-2000 RECORDERS NG/KK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



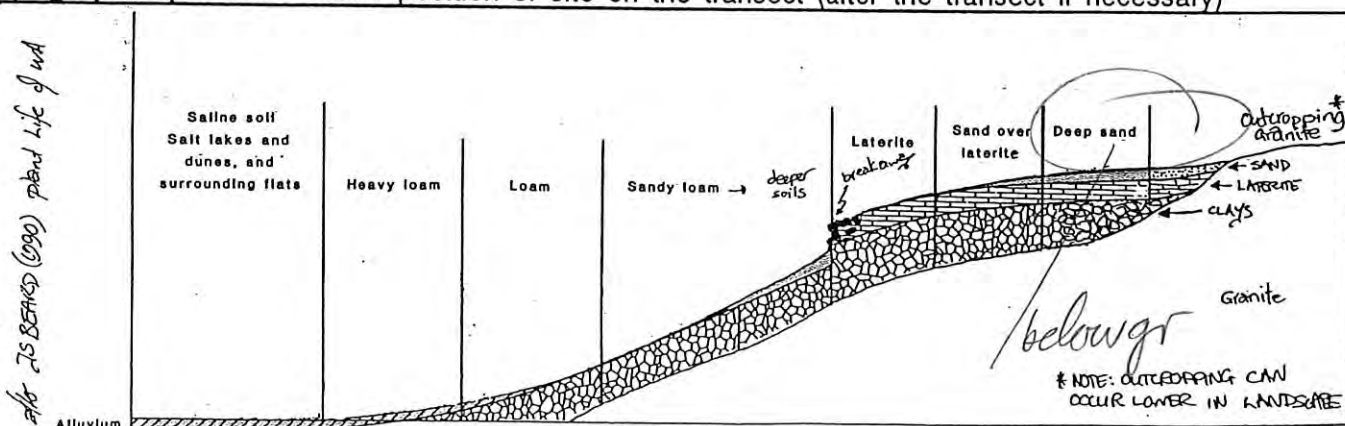
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____ 31° 47' 56.6" 117° 28' 09.5"

Photograph _____ Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil sand Colour yellow
 Exposed rock type _____ % surface _____

Sub-surface Soil sand Colour yellow
 Rock type granite depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

Litter twigs, stems % cover 76/90 Bare Ground 10 %cover
 Depth 2-5 cm

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			Alloc. hueg Ac. acum				

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30				2-10
DOMINANT SPECIES	Alloc. camp				Vert. chrys

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30	10-30			30-70
DOMINANT SPECIES	Aust. eleg Amphip. Briza max	Opic. vag Brya sphar.			Lepidob. chart Mesom. p. 155

4. VEGETATION CONDITION

Comments

excellent

QU24

find correct coll

CHARLES GARDNER					
Site No. 3		Date Assessed			
Wh: Allocasuarina huegeliana Woodland		15-Sep-98			
Coll.No.	ID Name	Ht	% A	% D	
	<i>Allocasuarina campestris</i>	250	5	✓	
	<i>Allocasuarina huegeliana</i>	500	15	✓	
CG003.13	<i>Amphipogon turbinatus</i> strictus	10	2	✓	
CG003.03	<i>Asteraceae</i> sp.	15	0.2		
CG003.07	<i>Austrodanthonia caespitosa</i>	5	0.1	✓	
CG003.04	<i>Borya sphaerocephala</i>	10	0.5	✓	
CG003.09	<i>Calytrix leschenaultii</i>	40	0.5	✓	
CG003.14	<i>Chamaexeros fimbriata</i>	15	0.1	✓	
CG003.05	<i>Dampiera lavandulacea</i>	10	0.2	✓	
	<i>Dianella revoluta</i>	60	0.5	✓	
~~CG003.11~~	~~<i>Goodenia concinna</i>~~ <i>be rardiana</i>	10	0.1		
CG003.06	<i>Lawrencella rosea</i>	10	2		
CG003.01	<i>Mesomelaena preissii</i>	40	15	✓	
CG003.10	<i>Microcorys</i> sp. <i>Platysace</i> ~~max~~ off	35	0.3		
CG003.02	<i>Restionaceae</i> sp. <i>lepidobolus chaetac</i>	20	5		
CG003.15	<i>Schoenus</i> sp. off. <i>clandestinus</i> ~~CG 3.05~~	5	0.05		
CG003.12	<i>Stylidium bulbiferum</i>	5	0.05		
CG003.16	<i>Stypandra glauca</i>	15	0.01	✓	
CG003.08	<i>Verticordia chrysantha</i>	40	0.5	✓	
	<i>Dodonaea pinifolia</i>				
	<i>Austrostipa eleg</i>				
	<i>Brunonia</i> <i>aust</i>				
	<i>Waitz acum</i>				
	<i>Bracken</i> <i>com</i> <i>iberioidifolia</i>				
	<i>Poranthera</i> <i>micro</i>				
	<i>Podolepis</i> <i>tepp</i>				
	<i>Opere</i> <i>vag</i>				
	<i>Drosera</i> <i>macrantha</i>				
	<i>Neurachne</i> <i>alop</i>				

dense overlap
1/15
diffuse

Briza max

Thysanotus paterson

Podotrocha angust

Cent Ceratogone obion

Hypochaeris glabra

✓ *Gonocarp. nodulosus*

Chaemascilla spiralis

Drosera stolonifera

Rhodanthe laevis

✓ *Trachym. cyanopet*

✓ " *anata*

✓ *Schoenus subflavus*

Add *Acacum*
from warburton

ig

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

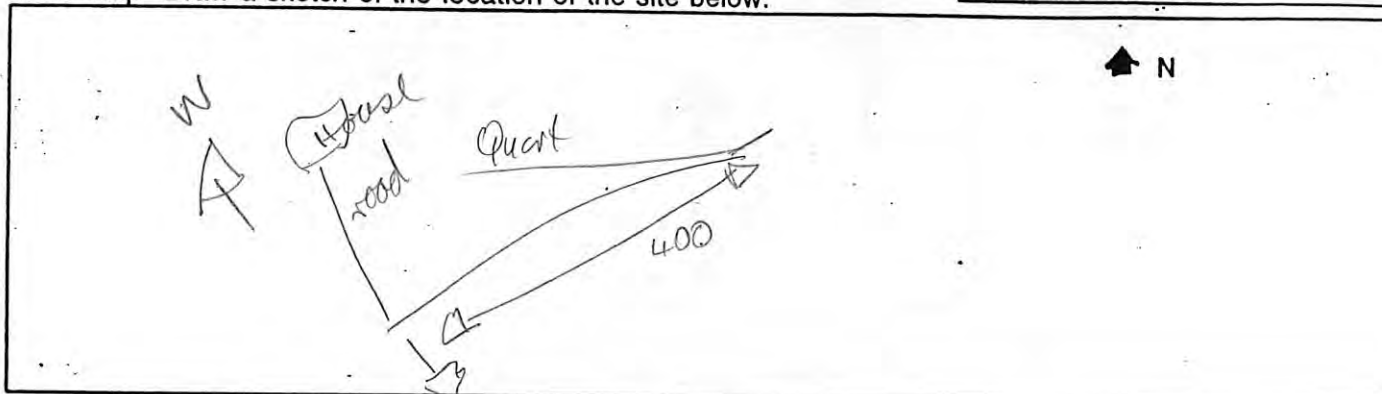
QU25

BUSHLAND AREA Charles Gardner NR SITE NUMBER CG 04
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

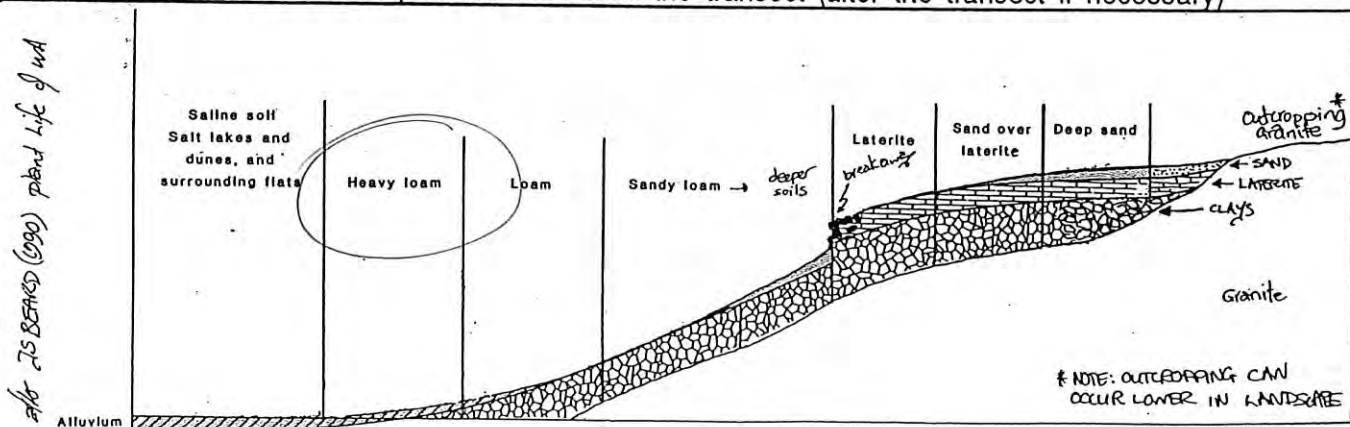


Road Location

Geographic Location Latitude 31°47'37.4" S Longitude 117°21'48.9" E Altitude _____
 Reference Map _____

Photograph Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil clay Colour grey
 Exposed rock type _____ % surface _____

Sub-surface Soil clay Colour grey
 Rock type _____ depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

Litter vs twigs % cover 10/30 Bare Ground 50 %cover _____
 Depth 2-5 cm

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 (%)							
DOMINANT SPECIES							
SHRUBS						SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						Hibb. rost Hakea inc Beauf. etc	2m 1m
COVER CLASS (%)		10-30		2	30-70		
DOMINANT SPECIES		Alloc. camp		Pet. semin	Myed		
GRASSES		HERBS		SEDGES		over 0.5m	
LIFE FORM							1m
COVER CLASS (%)	22	10-30				30-20	
DOMINANT SPECIES		Barya const				Mesom Schneuw	Arissii

4. VEGETATION CONDITION

Comments

excellent

21.9.00

QU25

CHARLES GARDNER				
Site No. 4		Date Assessed		
Kh2: Allocasuarina campestris/ Melaleuca holosericea Heath		15-Sep-98		
Coll.No.	ID Name	Ht	% A	% D
CG004.08	Acacia campylophylla	25	0.1	✓
	Allocasuarina campestris	200	15	✓
	Allocasuarina microstachya	30	0.5	✓
	Astroloma serratifolium	30	0.1	✓
CG003.10	Baeckea crispiflora	30	0.5	
CG004.10	Beaufortia bracteosa	30	0.1	✓
CG003.04	Borya-sphaerocephala constricta	10	5	✓
CG003.14	Chamaexeros fimbriata	30	0.01	✓
	Conostylis petrophiloides	15	0.01	
CG004.11	Cryptandra leucopogon	15	0.1	✓
CG004.05	Dampiera oligophylla	30	2	
CG002.10	Drosera menziesii	5	0.01	
CG004.09	Drosera platystigma (VSP)	10	0.01	
CG0001.5	Drosera pycnoblata	5	0.01	
	Elythranthera brunonis	15	0.01	
	Grevillea uncinulata	30	0.2	✓
CG004.01	Hakea incrassata	40	2	✓
CG004.02	Hibbertia(uncinata) = rostrata	40	0.5	
	Jacksonia sp. condensata	30	0.05	
~~CG004.06~~	Melaleuca leptospermoides	40	0.5	
CG003.01	Mesomelaena preissii	30	7	✓
CG004.04	Mirbelia spinosa	45	0.3	✓
	Neurachne alopecuroidea	10	0.01	✓
CG004.03	Petrophile seminuda	50	0.5	✓
CG004.07	Psammomoya choretroides	30	0.2	✓
CG003.02	Restionaceae sp.	15	0.5	
	Schoenus globifera	20	2	✓
CG001.6	Stylidium ?obtusatum	5	0.01	
CG003.16	Stypandra glauca	15	0.01	
CG003.08	Verticordia chrysantha	50	0.2	✓
	Comesperma volubile			
	Leucopogon taminensis			
	Oreocaulis vaginata			
	Drosera sulphurella			
	Stylidium piliferum			
	Schoenus clandestinus			
	Lepidobolus chartaceus			

chart.

Amphipogon strictus // *Cryptandra unguiculata*
Verticordia sp - too young to id.

// *Leucopogon dielsii*

// *Schoenus* sp

// *Platyneura effusa*

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

QU26

BUSHLAND AREA Charles Gardner NR SITE NUMBER C4 05
 DATE TRIP 21-9-2008 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

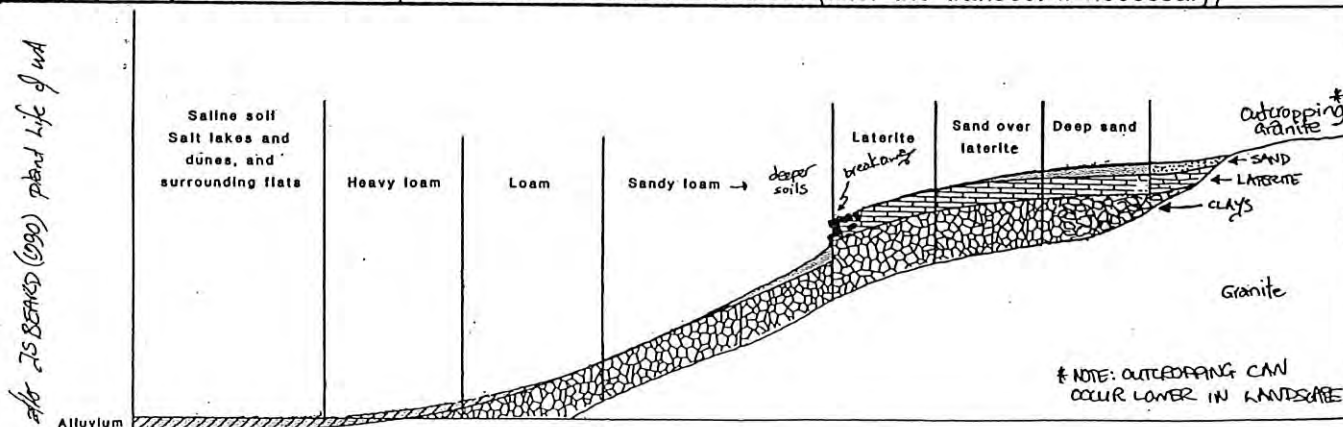


Road Location

Geographic Location Latitude 31°47'31.3" S Longitude 117°28'04.9" E Altitude
 Reference Map

Photograph Photographer's Name Photo No

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil clay loam Colour pale brown
 Exposed rock type % surface

Sub-surface Soil clay Colour brown
 Rock type depth to rock

Drainage well mod poor depth water cm Wet all year winter/spring

Litter twigs, lvs % cover 70-90 Bare Ground 30 %cover
 Depth 2-20 cm

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		<i>Tree Mallee</i> 	 	<i>tree Mallee</i> 		30m	10m
COVER CLASS (%)				10-30			
DOMINANT SPECIES				<i>Euc. loxophl</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>Ac. acum</i> <i>Sant. spic</i>				

GRASSES		HERBS		SEDGES		
	over 0.5m		over 0.5m		under 0.5m	
LIFE FORM	 	 	 	 		1m
COVER CLASS (%)	30-70	30-70			20-10-30	
DOMINANT SPECIES	<i>Aust. pycn</i>	<i>Arthr. cap</i> <i>Barya sphar</i> <i>Conostylis</i>			<i>Desm. a spec</i>	

4. VEGETATION CONDITION

Comments

excellent

QU26

CHARLES GARDNER				
Site No. 5			Date Assessed	
W1: <i>Eucalyptus loxophleba</i> Woodland			15-Sep-98	
Coll.No.	ID Name	Ht	% A	% D
	* <i>Anagallis arvensis</i>	5	0.01	✓
	* <i>Arctotheca calendula</i>	5	0.5	
CG001.07	* <i>Crassula nutans</i> del	2	0.01	
	* <i>Erodium botrys</i>	5	0.01	
	* <i>Raphanus raphanistrum</i> Brassica tournefortii	40	0.01	
	<i>Acacia acuminata</i> subsp. <i>acuminata</i>	700	4	✓
	<i>Austrostipa tricophylla</i> ✓	30	4	✓
CG005.13	<i>Blennospora drummondii</i>	2	0.01	✓
	<i>Borya sphaerocephala</i>	7	0.5	✓
CG005.11	<i>Brachyscome iberidifolia</i>	10	0.05	✓
CG005.17	<i>Calandrinia eremaea</i>	5	0.01	✓
CG005.15	<i>Chamaescilla (corymbosa)</i> var. <i>versicolor</i> ✓	15	0.01	
	<i>Conostylis prolifera</i>	5	2	✓
	<i>Dampiera lavandulacea</i> ✓	20	0.01	✓
CG005.06	<i>Desmodium asper</i> ms	10	8	✓
	<i>Dianella revoluta</i>	40	0.5	✓
CG005.16	<i>Dichopogon</i> sp. <i>Arthrop. capillipes</i>	40	10	
CG002.10	<i>Drosera menziesii</i>	T	0.01	✓
	<i>Eucalyptus loxophleba</i>	1200	8	✓
CG005.14	<i>Goodenia berardiana</i>	15	0.6	✓
CG005.05	<i>Halgania (cyanea)</i> <i>andromedifolia</i>	30	0.5	✓
CG005.03	<i>Hydrocotyle diantha</i> pilifera	1	0.01	
	<i>Neurachne alopecuroidea</i>	15	2	✓
CG005.01	<i>Phyllangium paradoxum</i>	3	0.01	
	<i>Podolepis lessonii</i>	15	5	✓
CG005.02	<i>Rhodanthe pygmaea</i>	2	0.01	
CG005.12	<i>Thysanotus thysoides</i> tenuis	15	0.01	✓
	<i>Trachymene cyanopetala</i>	5	0.05	
	<i>Waitzia acuminata</i>	20	0.1	✓
	<i>Vulpia myuros</i>			
	<i>Hyalospermum demissum</i>			
	<i>Gnaphalium</i>			

dead X
dead X

dead
coll. →

(WSP)

Hydrocotyle medicagmoides
Caladenia microchila *Arthrop. curvipes*
Podolepis fefferi
Briza maxima
Austrostipa pycnostachya
Portetia debilis *Lepidosperma tenue*
Br *Conesperma integ*
Lomandra effusa
Podolepis canescens
Lobelia gibbosa
Potentilla latifolia

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

QU27

BUSHLAND AREA Charles Gardner NR SITE NUMBER CG 06
 DATE TRIP 21-9-2000 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



Road Location

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

31°47'26.7"

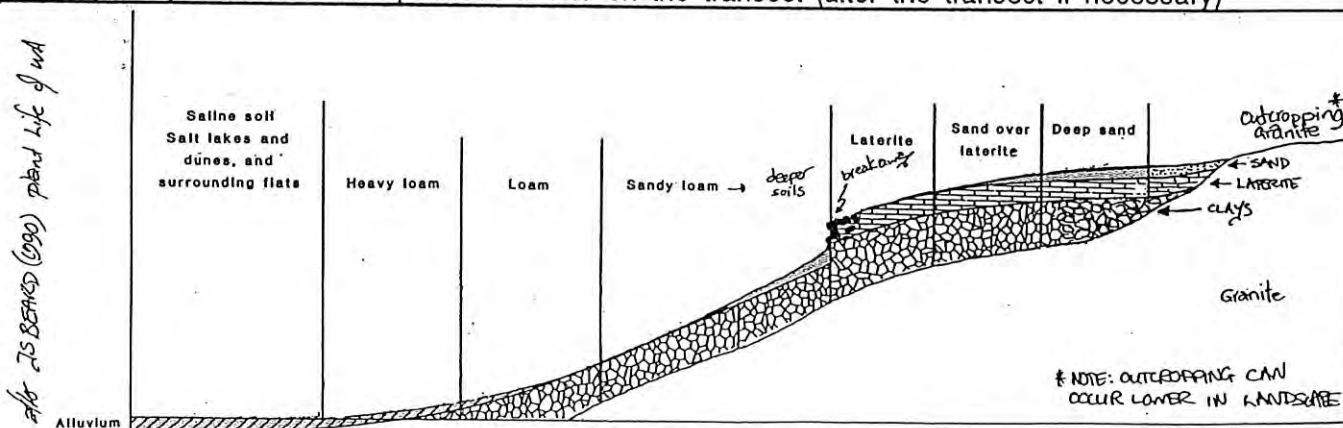
117°28'39.0"

Photograph

Photographer's Name

Photo No

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil type sandy clay Colour cream
 Exposed rock type _____ % surface _____

Sub-surface Soil type clay Colour cream
 Rock type _____ depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

Litter vs. twigs % cover 30/70 Bare Ground 30 % cover
 Depth 2-10 cm

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 (%)				10-30			
DOMINANT SPECIES				<i>Euc. capillosa</i> <i>ssp pelyclada</i>			

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	>70	2			2-10
DOMINANT SPECIES	<i>Mel. uncin</i> <i>Allocas. camp</i>	<i>Gast. parifl</i>			<i>Dodonaea</i>

GRASSES		HERBS		SEDGES	
	over 0.5m		over 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	2	2-10			10-30
DOMINANT SPECIES	<i>Acacia trich</i>	<i>Borja const</i>			<i>Desmod. asper</i> <i>Lepid visc</i>

4. VEGETATION CONDITION

Comments

excellent

CHARLES GARDNER				
Site No. 6		Date Assessed		
Ww: <i>Eucalyptus wandoo</i> Open Woodland over <i>Allocasuarina cam</i>		15-Sep-98		
Coll.No.	ID Name	Ht	% A	% D
CG006.10	* <i>Aira caryophyllea</i>	5	0.01	✓
	* <i>Hypochaeris glabra</i>	40	0.01	
CG006.09	<i>Acacia lasiocarpa</i> var. <i>sedifolia</i>	30	0.01	
CG006.12	<i>Acacia</i> sp.	40	0.01	
	<i>Allocasuarina campestris</i>	300	40	✓
	<i>Austrostipa elegantissima</i>	40	0.1	✓
CG005.13	<i>Blennospora drummondii</i>	5	0.01	✓
	<i>Borya sphaerocephala</i> <i>Lowstrick</i>	7	0.1	
CG006.07	<i>Caladenia dimidia</i> ms	20	0.01	✓
CG006.03	<i>Calotis hispidula</i>	2	0.01	✓
	* <i>Chamaexeros serra</i> <i>Lom. micrantha</i>	40	0.01	
	<i>Comesperma volubile</i>	T	0.01	✓
	<i>Dampiera lavandulacea</i>	10	0.1	✓
CG005.16	<i>Diehopogon</i> sp. <i>Artrop capillip</i>	15	0.01	
CG006.05	<i>Dodonaea humifusa</i> <i>pinifolia</i>	40	0.5	
	<i>Drosera macrantha</i>	T	0.01	
CG006.13	<i>Drosera pycnoblata</i> <i>slauduligca</i>	2	0.01	
	<i>Eucalyptus wandoo</i> <i>capill</i>	1000	15	
CG006.08	<i>Gastrolobium parvifolium</i>	80	1	✓
CG006.06	<i>Guichenotia angustifolia</i>	20	0.01	
	<i>Hakea scoparia</i>	150	3	
CG006.11	<i>Hibbertia uncinata</i>	40	0.01	
CG005.03	<i>Hydrocotyle diantha</i>	2	0.01	
CG006.02	<i>Lawrencella roea</i> <i>roea</i>	10	0.01	✓
	<i>Lepidosperma viscidum</i>	40		✓
	<i>Loxocarya cinerea</i> <i>Desmori aspera</i>			✓
	✓ <i>Melaleuca uncinata</i>	300	40	✓
	<i>Orthrosanthus laxus</i>	30	0.1	✓
	<i>Podolepis lessonii</i>	10	0.1	✓
CG001.06	<i>Stylidium ?obtusatum</i>			✓
	<i>Trachymene cyanopetala</i>	5	0.01	✓
CG005.04	Unknown sp.	15	0.01	
CG006.04	<i>Wahlenbergia multicaulis</i> <i>gracilent</i> <i>preissi</i>	2	0.01	
	<i>B. Dianella</i> <i>revoluta</i>			
	<i>Thysanotus patersonii</i>			
	<i>Trachymene ornata</i>			
	<i>Asteridea</i>			
	<i>Lobelia gibbosa</i>			
	<i>Vulpia myuros</i>			
	<i>Podotrocha angust</i>			
	<i>Lomand effusa</i>			
	✓ <i>Millotia tenuifolia</i> var. <i>tenuifolia</i>			✓

Neurachne alopec

✓ *Pentascistis airoid*

Hydrocotyle callicarpa

Cratogeomys obion

Eriochilus dilatatus

Levenhookia

✓ *Austrostipa tricophylla*

✓ *Bromus diandrus*

✓ *Crassula pedicellata*

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

QU28

BUSHLAND AREA Charles Gardner NR SITE NUMBER C9 07
 DATE TRIP 21/9/2000 RECORDERS Ng/GK/WAM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



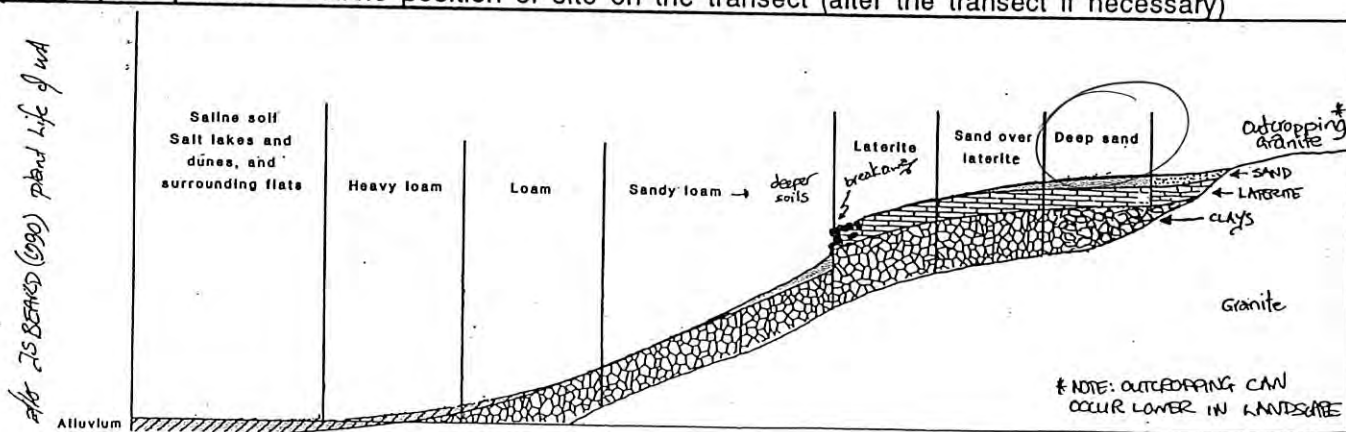
Road Location

Geographic Location Latitude 31°47'32.2" S Longitude 117°30'22.3" E Altitude _____

Reference Map _____

Photograph _____ Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil type sand Colour cream
 Exposed rock type _____ % surface _____

Sub-surface Soil type sand Colour cream
 Rock type _____ depth to rock > 1m

Drainage well mod poor depth water cm Wet all year winter/spring

Litter WS, twigs % cover 30-70 Bare Ground 50/70 % cover _____
 Depth 2-5 cm

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 (%)							
DOMINANT SPECIES							
SHRUBS					SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						Damp. olig	2m
COVER CLASS (%)	30-70					210-30	1m
DOMINANT SPECIES	Actinos. aren					Erem. pauc	
						Dry. citis	
						Alloc. micr	
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM							1m
COVER CLASS (%)	2-10	2-10			10-30		
DOMINANT SPECIES	Amphip. strict	Cham serra			Lepidob. chart		

4. VEGETATION CONDITION

Comments

excellent

QU28

CHARLES GARDNER					
Site No. 7			Date Assessed		
Kal: Actinostrobos arenarius Heath			15-Sep-98		
Coll.No.	ID Name	Ht	% A	% D	
	*Ursinia anthemoides	20	0.01	✓	
CG007.07	*Vulpia bromoides	15	0.1		
	Actinostrobos arenarius	300	40	✓	
	Allocasuarina humilis	100	1		
	Allocasuarina microstachya	30	2	✓	
CG002.02	Amphipogon caricinus	30	1	✓	
	Amphipogon turbinatus	50	0.5	✓	
	Austrostipa elegantissima	50	0.5		
CG007.08	Baeckea crispiflora	70	1.5		
CG007.06	Baeckea muricata	40	0.1		
	Beaufortia interstans	40	0.5	✓	
CG005.13	Blennospora drummondii	2	0.5		
	Calytrix leshcenaultii brachyphylla	40	0.5		
CG007.03	Ceratogyne obionoides	2	0.01	✓	
	Chamaescilla spiralis	15	0.01	✓	
	Chamaexeros serra	40	1.5	✓	
	Comesperma scoparium	10	0.01		
	Conostylis prolifera	5	0.01		
	Crassula colorata	3	0.01		
CG001.01	Crassula colorata var. colorata	2	0.01		
	Dampiera lavandulacea	20	0.01	✓	
	Dampiera oligophylla	30	1	✓	
CG007.04	Drosera andersoniana	1	0.01		
CG002.10	Drosera menziesii f. parvifolia	T	0.01		
	Dryandra armata	40	1	✓	
	Eremaea pauciflora no herm	100	2	✓	
CG007.09	Gastrolobium parvifolium - collected	40	0.1	✓	
	Hakea incrassata	40	5	✓	
	Isopogon scabriusculus	40	0.1		
	Jacksonia sp. ? ramulosa (sterile)	30	0.1		
	Laxmannia grandiflora palae	15	0.01		
CG002.12	Lepidobolus chaetocephalus	40		✓	
	Lepidobolus sp.	20	5		
	Leucopogon cymbiformis	50	0.5		
	Mesomelaena preissii	40	0.5	✓	
CG002.14	Microcorys sp. Platysace	50	0.5		
CG007.02	Millotia tenuifolia	10	0.01	✓	
	Petrophile ericifolia	40	0.5	✓	
	Psammomoya choretroides	30	0.5	✓	
	Quinetia urvillei	2	0.01		
CG005.02	Rhodanthe pygmaea	2	0.01		
CG007.01	Schoenus pleiostemoneus	15	5	✓	
	Stylidium repens	3	2	✓	
CG007.05	Synaphea polymorpha spinulosa ssp major	30	0.5	✓	
	Trachymene cyanopetala	2	0.01		
CG005.4	Unknown sp.	15	0.01		
	Verticordia chrysantha	50	0.5	✓	
	Verticordia picta	50	0.5	✓	
	Waitzia nitida	15	0.1		
	Hypochaeris glabra				
	Goodenia berardiana				
	Harpea latriflora				
	Schoenus (mat) & Lambertiana				

Neerache alopec

Thysan paterson
Jacksonia condensata

Baeck preiss

Leucop. tamin

Gomphol. -
beardatumCassytha pom
Laxm. pateac

Schoenus subgl

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

RU29

BUSHLAND AREA Charles Gardner NR SITE NUMBER CG 08
 DATE TRIP 21-9-2000 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

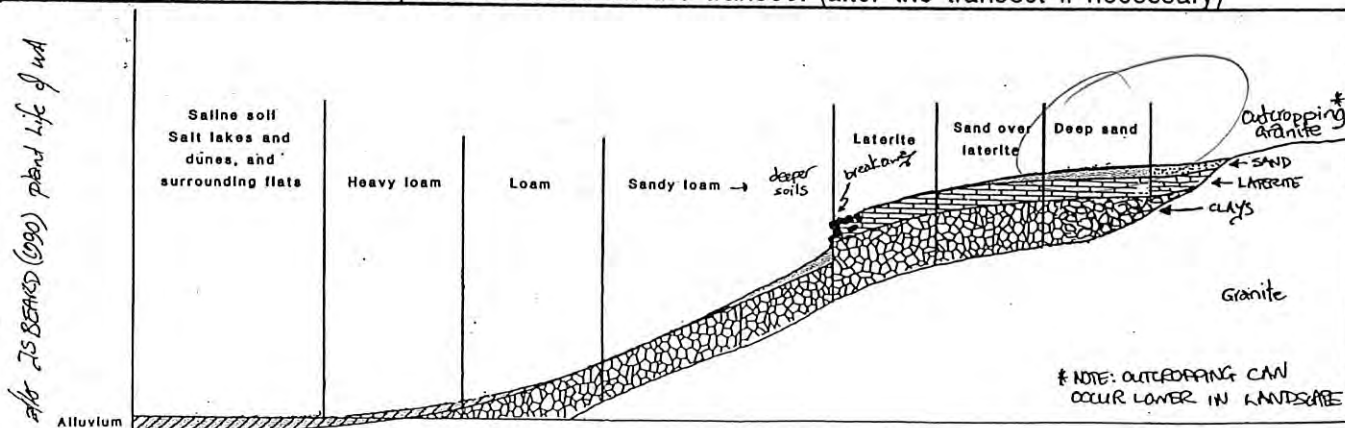


Road Location

Geographic Location Latitude 31°47'23.4" S Longitude 117°28'33.3" E Altitude _____
 Reference Map _____

Photograph Photographer's Name NG Photo No 03

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW
Surface Soil	<u>sandy clay</u>						Colour	<u>yellow</u>				
Exposed rock	type _____						% surface	_____				
Sub-surface Soil	<u>deep sandy clay</u>						Colour	<u>yellow</u>				
Rock	type _____						depth to rock	<u>>1m</u>				
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>twigs lvs</u>			% cover	<u>30-70</u>			Bare Ground	<u>30</u>			%cover
Depth	<u>2-5 cm</u>											

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 (%)							
DOMINANT SPECIES							
SHRUBS						SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)		30-70	10-20		10-30		
DOMINANT SPECIES		Alloc. camp	Dry. circ Grev. pulegioides		Davies nudif Hakea strum Hibb uncin		
GRASSES		HERBS		SEDGES		over 0.5m	
LIFE FORM						1m	
COVER CLASS (%)	<2	<2			2-10-20		
DOMINANT SPECIES					Lepidob. chaet Schoenus- Lepidosp		

4. VEGETATION CONDITION

Comments

excellent

CHARLES GARDNER				
Site No. 8		Date Assessed		
Kt: Allocasuarina campestris Thicket		15-Sep-98		
Coll.No.	ID Name	Ht	% A	% D
	Allocasuarina campestris ✓	200	40	✓
CG008.10	Amphipogon strictus ✓	15	0.01	✓
CG003.10	Baeckea crispiflora ✓	15	0.2	✓
	Beaufortia interstans ✓	30	0.3	
CG008.11	Comesperma scoparium ✓	40	0.1	✓
CG008.01	Daviesia nudiflora ✓	50	5	✓
CG008.08	Dryandra cirsioides ✓	150	3	✓
CG008.05	Dryandra horrida ✓	80	3	✓
~~CG008.06~~	Dryandra speciosa ssp speciosa ✓	40	0.5	✓
CG008.09	Eremaea pauciflora ✓	40	1	✓
CG008.03	Grevillea hookeriana sp. apiculoba ✓	120	4	
CG008.02	Hakea circumalata ✓	100	5	✓
	Hakea incrassata ✓	100	1	✓
CG004.02	Hibbertia uncinata ✓	30	1	✓
CG008.07	Isopogon scabriusculus ✓	80	2	✓
	Lepidosperma viscidum ✓	30	0.05	✓
CG008.04	Lomandra collina ✓	10	0.1	
	Melaleuca (leptospermoides) holoserice ✓	50	1	
	Neurachne alopecuroidea ✓	15	0.01	
	Psammomoya choretroides ✓	20	0.2	✓
CG003.02	Restionaceae sp. Lepidobolus chart ✓	15	0.1	
CG003.08	Verticordia chrysantha ✓	50	0.5	✓
	Laxmannia paleac ✓			
	Thysanotus patersonii ✓			
	Hakea erecta ✓			
	Dodonaea pinifolia ✓			
	Schoenus calceat ✓			
	Schoenus - (mat as CG 2) - claudinotinus ✓			
	Andersonia lehmann ssp pubescens ✓			
	Schoenus - III - pleistemonus ✓			
	Rhodanthe paniculata ✓			

check?

*Blennospora drummond**Vulpia myuros**Austrostipa elegantiss**Ceratogyne obionoid**Drosera macrantha**Patersonia drummond**Comesperma volubile**Acacia* */ Temple* *acut atax. phylla*
*ssp. magna**Cassytha racemosa*

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

QU30

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG 09
 DATE TRIP 20-9-2000 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

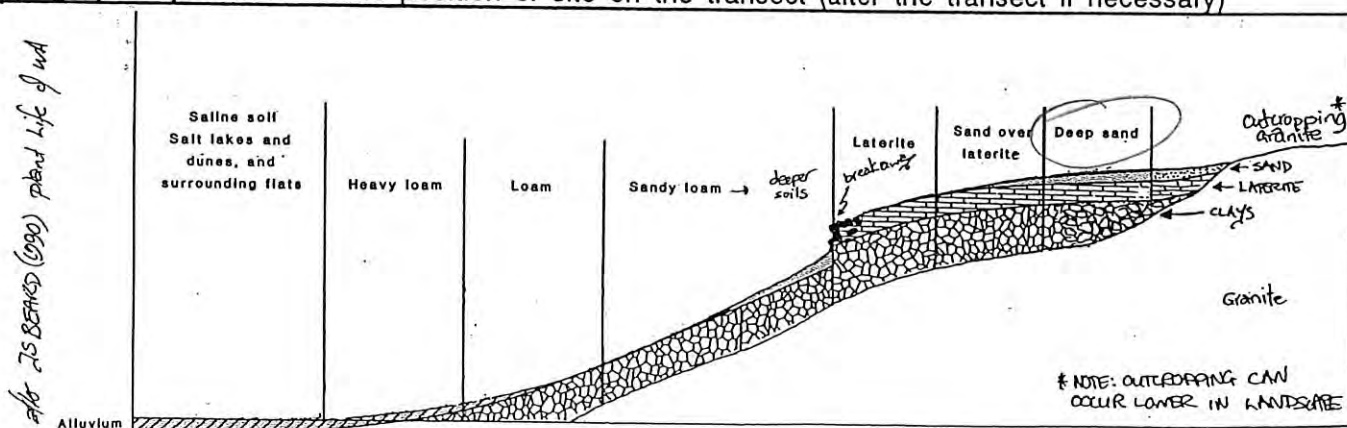


Road Location

Geographic Location Latitude 31°47'36.6" S Longitude 117°30'11.8" E Altitude _____
 Reference Map _____

Photograph Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW
Surface Soil	<u>sand</u>			Colour	<u>yellow</u>							
Exposed rock	type			% surface								
Sub-surface Soil	<u>sand</u>			Colour	<u>yellow</u>							
Rock	type			depth to rock	<u>> 1m</u>							
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>vs, twigs, stems</u>			% cover	<u>30/70</u>			Bare Ground	<u>30</u>		% cover	
	Depth			<u>2-10</u>		cm						

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

3. VEGETATION STRUCTURE AND COVER

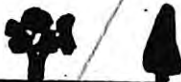
For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.

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						30-70	<i>Xylom. angust</i>

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30				2-10
DOMINANT SPECIES	<i>Actin. aren</i>				Mixed

GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	2			30-70
DOMINANT SPECIES					Mesom. preiss Lepidosp. visc

4. VEGETATION CONDITION

Comments

excellent

CHARLES GARDNER				
Site No. 9		Date Assessed		
Ka2: <i>Xylomelum angustifolium</i> / <i>Actinostrobos arenarius</i> Heath		15-Sep-98		
Coll.No.	ID Name	Ht	% A	% D
	* <i>Aira caryophyllea</i> ✓	5	1	
	* <i>Arctotheca calendula</i> ✓	10	0.01	
	* <i>Hypochaeris glabra</i> ✓	15	1	✓
	* <i>Ursinia anthemoides</i> ✓	20	1	✓
CG009.03	* <i>Vulpia bromoides</i>	20	0.01	✓
	<i>Actinostrobos arenarius</i> ✓	200	10	✓
	<i>Allocasuarina microstachya</i> ✓	50	0.5	
	<i>Astroloma serratifolium</i>	30	1	✓
	<i>Austrostipa elegantissima</i> ✓	50		✓
	<i>Austrostipa trichophylla</i> ✓	5	0.01	✓
CG005.13	<i>Blennospora drummondii</i> ✓	2	0.5	✓
	<i>Borya sphaerocephala</i> ✓	10	0.5	✓
CG009.05	<i>Calytrix sapphirina</i> ✓	30	1	
CG007.03	<i>Ceratogyne obionoides</i> ✓	2	0.05	
	<i>Chamaescilla spiralis</i> ✓	25	0.01	✓
	<i>Crassula colorata</i> ✓	3	0.01	✓
	<i>Dampiera lavandulacea</i> ✓	5	0.5	✓
CG002.10	<i>Drosera menziesii</i> ✓	T		
	<i>Eremaea pauciflora</i> ✓	70	1.5	✓
CG009.01	<i>Gnephosis</i> sp. ✓	5	0.01	
	<i>Lepidobolus chaetocephalus</i> ✓	20	5	✓
	<i>Lepidosperma viscidum</i> ✓	60	15	✓
✓	<i>Melaleuca leptospermoides</i> ✓	40	1	
	<i>Mesomelaena preissii</i> ✓	50	15	✓
CG007.02	<i>Millotia tenuifolia</i>	5	0.01	
CG009.02	<i>Neurachne alopecuroidea</i>	15	0.55	✓
CG009.07	<i>Pterostylis sanguinea</i>	10	0.01	
CG009.04	<i>Rhodanthe laevis</i>	15	0.01	
	<i>Thysanotus patersonii</i>	7	0.01	✓
	<i>Trachymene cyanopetala</i> ✓	5	1	✓
	<i>Verticordia chrysantha</i> ✓	50	1	✓
CG009.06	<i>Wahlenbergia gracilentia</i> ✓	15	0.01	
	<i>Waitzia nitida</i>	15	0.05	
	<i>Xylomelum angustifolium</i>	1000	50	✓
	<i>Vulpia myuros</i> ✓			
	<i>Drosera macrantha</i> ✓			
	<i>Gnephosis pusilla</i> ✓			
	<i>Austrostipa trichophylla</i> ✓			
	<i>Hibbertia rosea</i> ✓			

uncinate lvs

Scaevola (flat -
 listed as *repens* b/f)

Waitzia acuminata

Hyalospora demissa

Ursinia anthemoides

Schoenus (flat)

Baeckea sp

Lobelia gibbosa

Hypochaeris glabra

Opercul vag

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

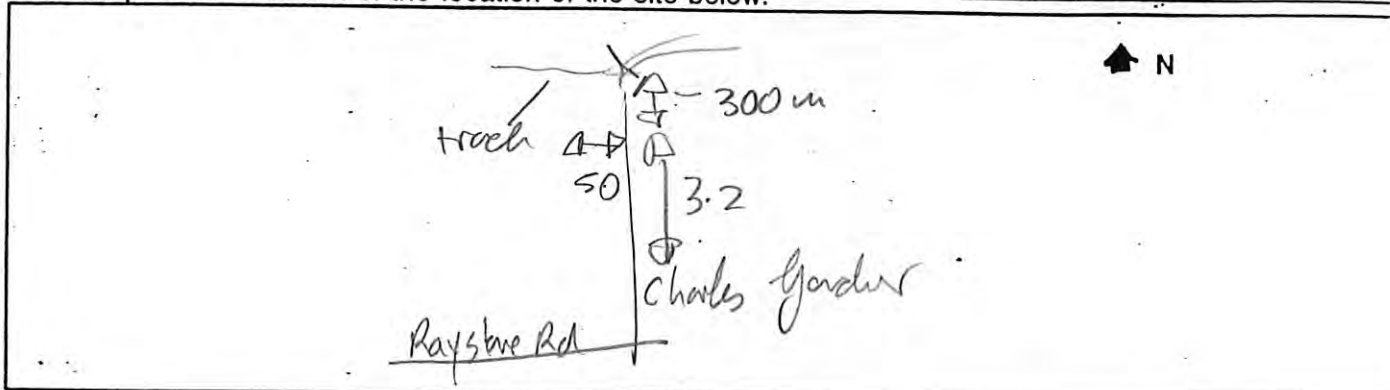
QU31

BUSHLAND AREA Charles Gardner NP SITE NUMBER C910
 DATE TRIP 20-9-2000 RECORDERS Nq/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

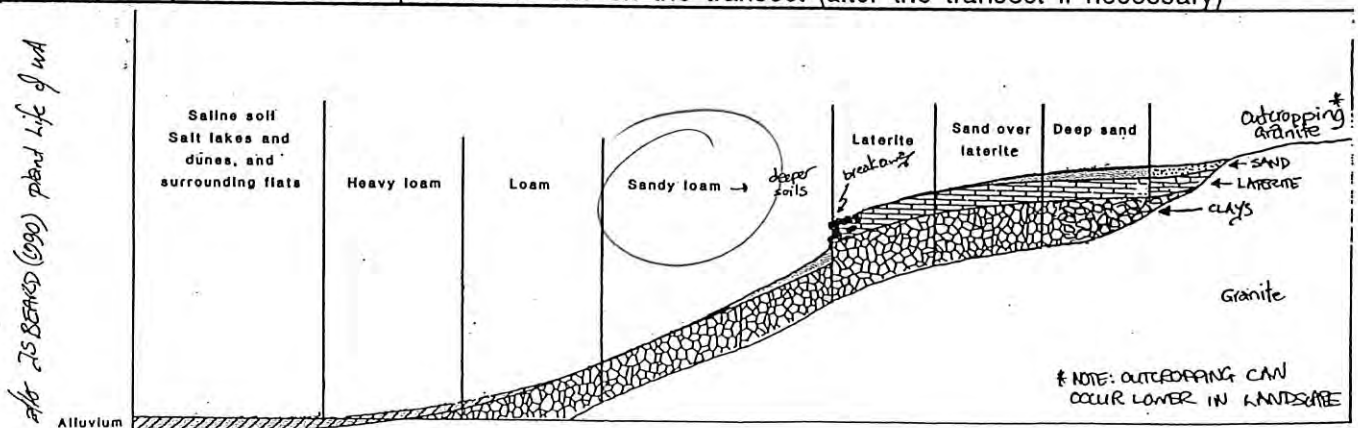


Road Location

Geographic Location Latitude 31°47'29.1" S Longitude 117°29'38.1" E Altitude _____
 Reference Map _____

Photograph Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



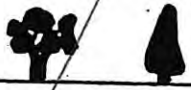
2. SITE DATA Circle the correct response.

Slope	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW
Surface Soil	<u>sandy</u>				Colour	<u>grey</u>						
Exposed rock	type				% surface							
Sub-surface Soil	<u>sandy clay</u>				depth to rock	<u>> 1m</u>						
Rock	type				Colour	<u>grey</u>						
Drainage	<u>well</u>	<u>mod</u>	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>vs twigs</u>	% cover	<u>30/70</u>	Bare Ground	<u>30</u>	% cover						
	Depth	<u>2-5</u>	cm									

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.

		TREES			MALEES	
		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			10-30
DOMINANT SPECIES			Alloc. camp			Dry spec Hakea line Vertic br/roei
		GRASSES		HERBS	SEDGES	
					over 0.5m	under 0.5m
LIFE FORM						
COVER CLASS (%)		L2		L2		10-30
DOMINANT SPECIES						Lepidob - chart

4. VEGETATION CONDITION

Comments

excellent

QU31

CHARLES GARDNER				
Site No. 10			Date Assessed	
Kc/Km: <i>Allocasuarina campestris</i> Heath/Scrub Heath Mosaic			15-Sep-98	
Coll.No.	ID Name	Ht	% A	% D
	<i>Allocasuarina campestris</i>	200	50	✓
CG003.10	<i>Baeckea crispiflora</i>	20	0.01	
	<i>Borya sphaerocephala</i>	5	2	✓
CG008.01	<i>Daviesia nudiflora</i>	50	0.2	
CG008.06	<i>Dryandra speciosa</i>	70	7	✓
	<i>Hakea incrassata</i>	30	2	✓
CG008.07	<i>Isopogon scabriusculus</i>	100	0.5	✓
CG010.02	<i>Laxmannia grandiflora</i>	15	0.01	
CG010.03	<i>Leucopogon tamminensis</i>	20	0.05	
✓	<i>Melaleuca leptospermoides</i>	30	0.01	✓
	<i>Mesomelaena preissii</i>	20	1	✓
	<i>Orchidaceae</i> sp.	15	0.01	
CG010.01	<i>Verticordia brownii</i>	100	8	
CG003.08	<i>Verticordia chrysantha</i>	90	0.3	✓
	<i>Lepidobol chaetaceph</i>			
	<i>Drosera stolonifera</i>			
✓	<i>Opricularia</i>			
	<i>Amphipogon strictus</i>			
	<i>Chaemascilla spiralis</i>			

Desmodadus

Millotia tenuifol

Drosera macrantha

Stylidium cf repens

Drosera zonaria

✓ *Cryptandra myrtilloides*

✓ *Boronia coerulescens*

✓ *Hibbertia (as can) ? rostrata*

Verticordia picta

✓ *Schoenus aff pleistomus*

Levenhookia stip

Chaemaxeros

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

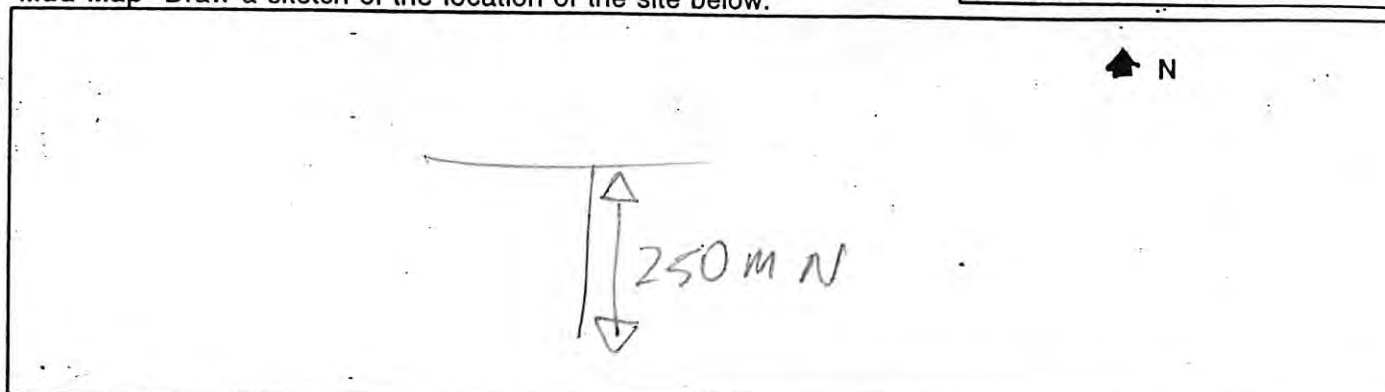
QU32

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG 11
 DATE TRIP 20-9-2000 RECORDERS NG/4K/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

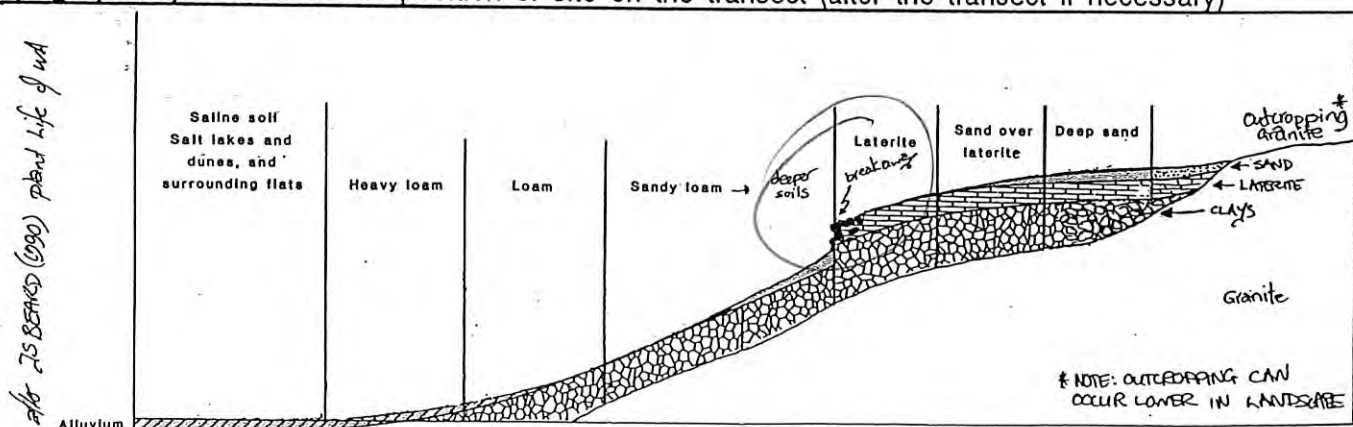


Road Location

Geographic Location Latitude 31°47'20.0" S Longitude 117°29'46.9" E Altitude P. 209
 Reference Map 50 546993 6482843

Photograph Photographer's Name NG Photo No 02

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

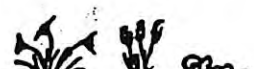
Slope flat gentle steep Aspect N NE E SE S SW W NW
 Surface Soil sand Colour grey
 Exposed rock type lateritic pebbles % surface 2-10
 Sub-surface Soil lateritic sand Colour _____
 Rock type laterite depth to rock _____
 Drainage well mod poor depth water cm Wet all year winter/spring
 Litter twigs lvs % cover 10/30 Bare Ground 50 %cover
 Depth 2-5 cm

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 (%)							
DOMINANT SPECIES							
SHRUBS						SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)		30-70	2-10		10-30		
DOMINANT SPECIES		Alloc. camp Actin. orn	Dry. circs		Banks sph Dry. specios		
GRASSES		HERBS		SEDGES		over 0.5m	
LIFE FORM						1m	
COVER CLASS (%)	2	2				2-10	
DOMINANT SPECIES						Schoenus	

4. VEGETATION CONDITION

Comments

excellent

QU32

CHARLES GARDNER				
Site No. 11		Date Assessed		
Kh1: Open <i>Allocasuarina campestris</i> over <i>Melaleuca holosericea</i>		15-Sep-98		
Coll.No.	ID Name	Ht	% A	% D
CG0011.05	? <i>Daviesia</i> sp.	40	0.4	
CG011.02	<i>Acacia bidentata</i>	40	2	
CG011.04	<i>Actinostrobilus arenarius</i>	70	1	0.5
	<i>Allocasuarina campestris</i>	150	70	
	<i>Allocasuarina microstachya</i>	50	0.5	
	<i>Beaufortia decussata</i>	30	1	
CG008.01	<i>Daviesia nudiflora</i>	40	1	
CG008.8	<i>Dryandra cirsioides</i>	100	1	
CG008.05	<i>Dryandra horrida</i>	30	1.5	
CG008.06	<i>Dryandra speciosa</i> ssp	100	1	
	<i>Hakea incrassata</i>	40	0.5	
	~~rostrata~~ <i>Hibbertia hypericoides</i> no	20	0.05	
CG011.01	<i>Lysinema ciliatum</i>	50	1	
CG011.03	~~<i>Melaleuca holosericea</i>~~ ssp de th. de	40	3	
CG003.08	<i>Verticordia chrysantha</i>	30	0.2	
	<i>Banksia sphaerocarpa</i> var <i>caesia</i>			
	<i>Cassipoula pomiformis</i>			
	<i>Dampiera lavandulifolia</i>			
	<i>Psammomoya charitoides</i>			
	<i>Isopogon</i> / ~~<i>Isopogon</i>~~ <i>scabriscalear</i>			
	<i>Lepidosiphon chaetacephalus</i>			

X
excavated
died -

{ 5 up to
gals
8 times found.

Nerachm. alopec
Leucopogon cymbiformis (- bot ntl of main dist²)
Amphipogon turbin
Opercul vag

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

0433

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG 12
 DATE TRIP 20-9-2000 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



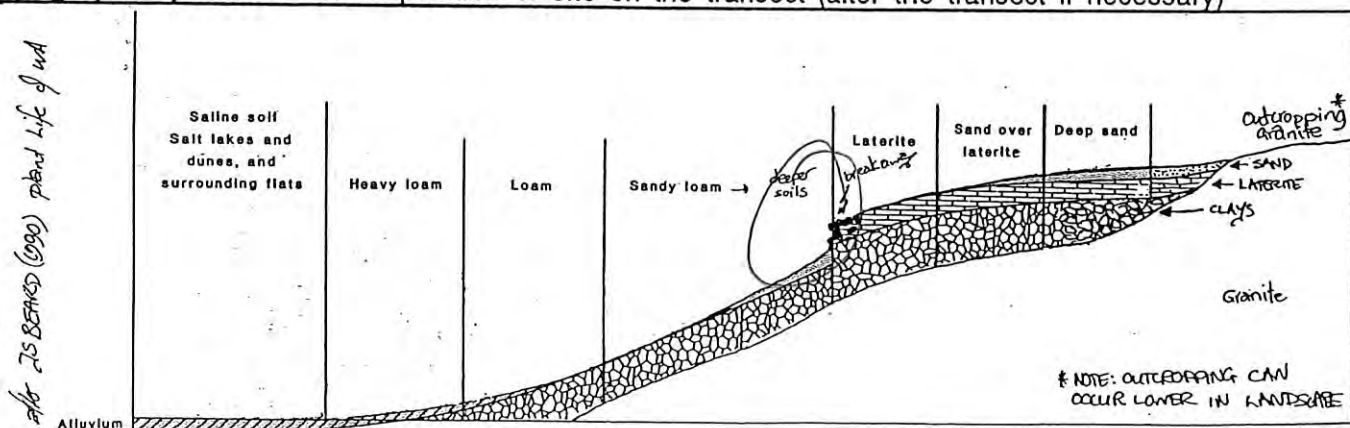
Road Location

Geographic Location Latitude S Longitude E Altitude

Reference Map 31°46'56.7" 117°28'19.4"

Photograph Photographer's Name Photo No

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil sandy clay laterite Colour orange-brown
 Exposed rock type laterite % surface 10-30

Sub-surface Soil lateritic clay Colour brown
 Rock type _____ depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

Litter vs. twigs % cover 70/90 Bare Ground 10-30 % cover
 Depth 2-10 cm

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 (%)		2-10					
DOMINANT SPECIES		<i>Euc. falcata</i>					
SHRUBS					SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)	30-70					30-70	
DOMINANT SPECIES	<i>Alloc. acutiv</i> <i>ii campst</i>					<i>Dodon bursariif</i> <i>Phebal. tubreca</i> <i>Ac. sinac</i>	
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM						1m	
COVER CLASS (%)	< 2	< 2			< 2		
DOMINANT SPECIES							

4. VEGETATION CONDITION

Comments

burnt ca 30 yrs ago
(regen woodland)

QU33

CHARLES GARDNER					
Site No. 12			Date Assessed		
Wf2: Regenerating <i>Eucalyptus falcata</i> Woodland			16-Sep-98		
Coll.No.	ID Name	Ht	% A	% D	
CG016.02	<i>Acacia erinacea</i>	30	0.01	✓	
CG012.02	<i>Acacia hemiteles</i>	70	0.5	✓	
	<i>Allocasuarina acutivalis</i>	350	15	✓	
	<i>Allocasuarina campestris</i>	250	50	✓	
CG005.13	<i>Blennospora drummondii</i>			✓	
	<i>Crassula colorata</i>	2	0.01		
	<i>Dodonaea bursariifolia</i>	40		✓	
CG016.01	<i>Dryandra cirsioides</i>	100	1	✓	
	<i>Eucalyptus falcata</i>	600	10	✓	
	<i>Hakea scoparia</i>	70	1	✓	
	<i>Hypochoeris glabra</i>	2	0.01	✓	
	<i>Leptospermum erubescens</i>	200	0.5	✓	
✓	<i>Melaleuca uncinata</i>	200	3	✓	
CG012.04	<i>Millotia tenuifolia</i>	3	0.01	✓	
	<i>Neurachne alopecuroides</i>	5	0.01		
CG012.03	<i>Persoonia coriacea</i>	40	0.1		
CG012.01	<i>Persoonia</i> sp.	30	0.5		
	<i>Phebalium tuberculosum</i>	70	1	✓	
	<i>Podotheca angustifolia</i>	5	0.01		
CG009.04	<i>Rhodanthe laevis</i>	10	0.01		
	<i>Santalum acuminatum</i>	220	1	✓	
	<i>Thysanotus patersonii</i>	T	0.01	✓	
	<i>Trachymene cyanopetala</i>	2	0.01	✓	
	<i>Scaevola (pinifolia)</i>				
	<i>Drosera macrantha</i>				

20x20

Euc. yilgarensis ✓

QU34

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG 13
 DATE TRIP 20-9-2000 RECORDERS Wg/gk/wm
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



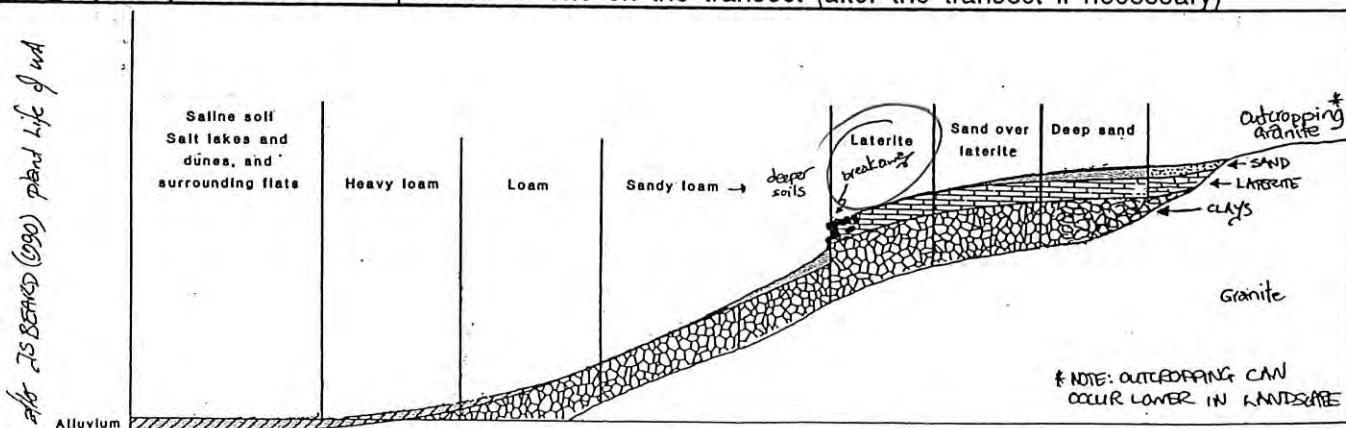
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____ 31°46'55.9" 117°28'18.9"

Photograph Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil type labial sandy clay Colour brown
 Exposed rock type laterite pebbles % surface/rock 10-30

Sub-surface Soil type labial loam Colour _____
 Rock type laterite depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

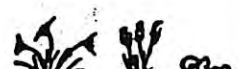
Litter vs. twigs % cover 70/90 Bare Ground 10/30 %cover
 Depth 2-20 cm

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 (%)	10-30				2-10		
DOMINANT SPECIES	<i>Euc. galcata</i>				<i>Euc. ylgarn</i>		
SHRUBS					SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)	2-10		2-10		2-10		
DOMINANT SPECIES	<i>Alloc. acut</i>		<i>Aco. hemi. bl</i>		<i>Phrb tubercul</i>		
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM						1m	
COVER CLASS (%)	22	22			22		
DOMINANT SPECIES							

4. VEGETATION CONDITION

Comments

excellent

QU34

CHARLES GARDNER					
Site No. 13	<i>argyrea</i>		Date Assessed		
Wf1: <i>Eucalyptus falcata</i> Woodland			16-Sep-98		
Coll.No.	ID Name	Ht	% A	% D	
CG016.02	<i>Acacia erinacea</i>	20		0.5	
	<i>Acacia ligulata</i> ~~no~~ <i>hemiteles</i>	200	3	✓	
	<i>Allocasuarina acutivalis</i>	400	5	0.5	
	<i>Comesperma volubile</i>				
	<i>Dodonaea bursariifolia</i>	40	1	✓	
	<i>Eucalyptus falcata</i> <i>argyrea</i>	1400	20	✓	
	<i>Hakea scoparia</i>	100	0.1	✓	
	<i>Melaleuca uncinata</i>	70	0.5	✓	
CG012.01	<i>Persea</i> sp. <i>Scaevola</i>	50	0.5		
	<i>Phebalium tuberculatum</i>	70	2	✓	
CG013.01	<i>Trymalium ledifolium</i> (subsp. <i>ledifolium</i>)	50	1		
	subsp. <i>rosmarinifolium</i>				
	<i>Euc. yilgarensis</i>				
	<i>Allocas</i> () camp				
	<i>Caladenia saccharata</i>				
	<i>Labiichea lanceolata</i> ssp. <i>brevifolia</i>			✓	
	<i>Trymalium daphnifolium</i> (J.S.V.)			✓	

* del. →

QU35

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG 14
 DATE TRIP 20-9-2000 RECORDERS ANG/GR/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



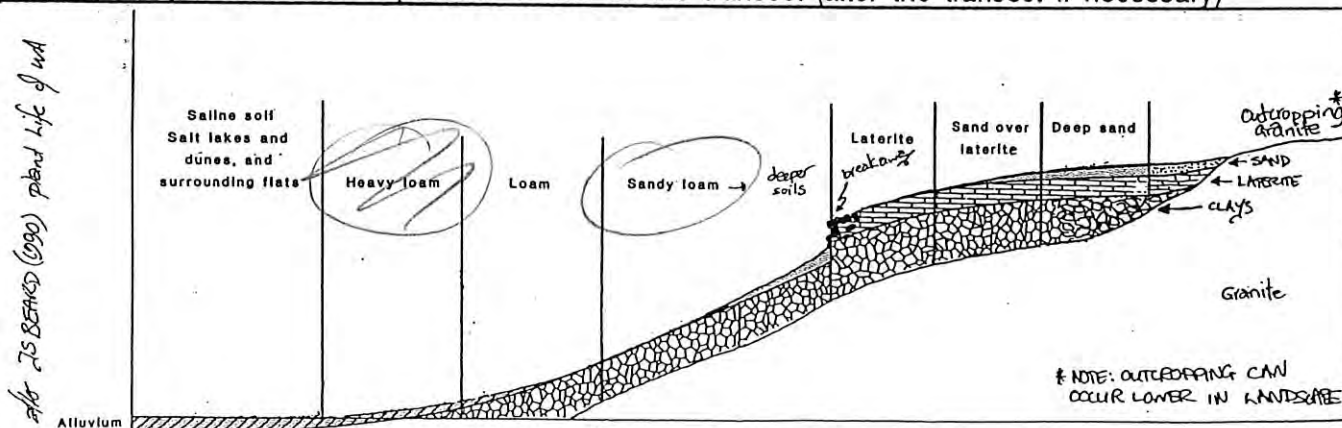
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____ 31°46'43.6" 117°28'16.3"

Photograph Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil sandy clay Colour brown
 Exposed rock type _____ % surface _____

Sub-surface Soil sandy clay Colour brown
 Rock type _____ depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

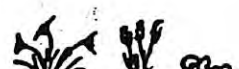
Litter bark, twigs, twigs % cover 70/90 Bare Ground 10/30 % cover
 Depth 2-10 cm

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

3. VEGETATION STRUCTURE AND COVER

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

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

TREES					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					30-70
DOMINANT SPECIES					Euc. conglob Euc. globkt
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)		10-30		10-30	10-30
DOMINANT SPECIES		Mel. uncin		Phac. tuberc	Hebertia Calykix sapph Baobab VI Bossiaea elioc
GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	< 2	< 2			< 2
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

QU35

CHARLES GARDNER					
Site No. 14		Date Assessed			
Mm: Mallee over <i>Melaleuca uncinata</i> Heath		16-Sep-98			
Coll.No.	ID Name	Ht	% A	% D	
	* <i>Hypochaeris glabra</i>	2	0.01	✓	
	* <i>Ursinia anthemoides</i>	15	0.01	✓	
CG014.13	* <i>Vulpia bromoides</i>	15	0.01		
	<i>Austrostipa elegantissima</i>	60	0.01	✓	
CG014.07	<i>Baeckea grandiflora</i> s left	40	0.5	✓	
CG014.12	<i>Baeckea preissiana</i>	80	0.05		
CG005.13	<i>Blennospora drummondii</i>	3	0.01	✓	
	<i>Bossiaea eriocarpa</i>	100	1	✓	
CG014.04	<i>Calandrinia eremaea</i>	2	0.01		
CG014.11	<i>Calytrix teschenaultii</i> branched	40	0.5	✓	
	<i>Crassula colorata</i> col.	2	0.01	✓	
	<i>Eucalyptus conglobata</i> phan.	600	40	✓	
	<i>Eucalyptus flocktoniae</i> flock	600	10	✓	
CG014.02	<i>Hibbertia exasperata</i>	40	2	✓	
CG014.05	<i>Lepidosperma viscidum</i>	60	1	✓	
	<i>Leptospermum erubescens</i>	20	0.1	✓	
CG014.09	<i>Lomandra effusa</i>	20	0.1	✓	
	<i>Melaleuca uncinata</i>	220	15	5	
CG014.03	<i>Millotia tenuifolia</i>	5	0.1	✓	
CG014.08	<i>Monotaxis grandiflora</i>	2	0.01		
	<i>Neurachne alopecuroides</i>	5	0.1	✓	
CG014.10	<i>Patersonia drummondii</i>	15	0.01	✓	
	<i>Phebalium tuberosum</i>	110	3	✓	
	<i>Podotheca angustifolia</i>	2	0.01	✓	
CG014.06	<i>Pterostylis recurva</i>	20	0.01		
	<i>Thysanotus patersonii</i>	T	0.01	✓	
CG014.01	Unknown sp.	40	2		
	<i>Verticordia chrysantha</i>	30	0.01		
CG009.06	<i>Wahlenbergia gracilenta</i>	15	0.01		
	<i>Acacia leptospermoides</i> left				
	<i>Lasiopetalum melle</i> (usp)				
	<i>Dodonaea bursariifolia</i>				
	<i>Austrostipa pycnostachya</i>				
	<i>Ceratogyne obionoides</i>				
	<i>Paranthera microphylla</i>				
	<i>Waitzia acumin</i>				
	<i>Rhodanthe laevis</i>				
	<i>Hydrocotyle callicarpa rugulosa</i>				

check well to →

20+ stamens

? *Paranthera* check.

20x20

/// *Euc. hypochalyndea* ssp. *eclipsata*
 smth barbed m/ gray bark, / lvs glossy light green
 buds

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

QU36

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG 15
 DATE TRIP 20/9/2000 RECORDERS NG/KK/MM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

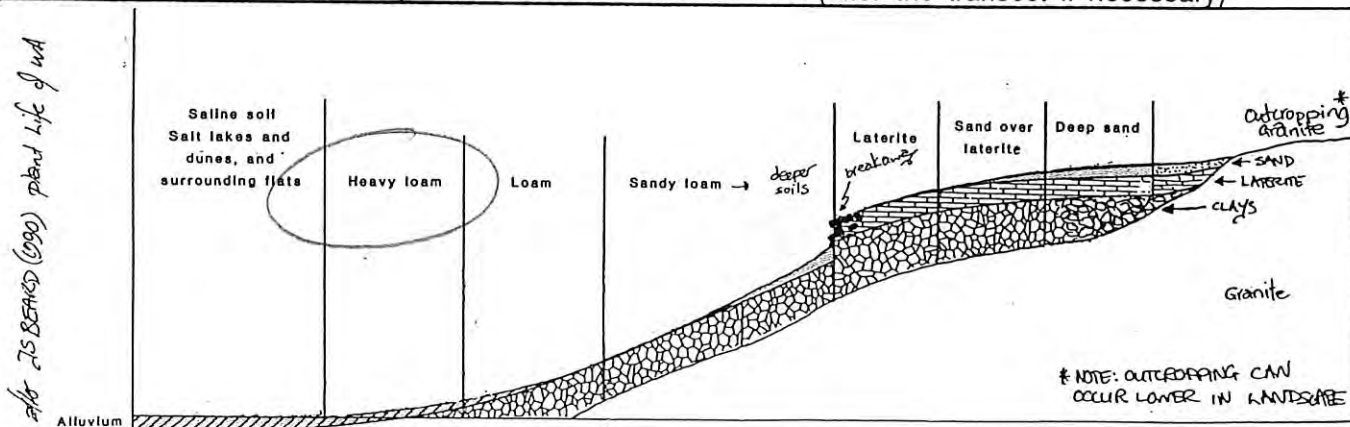


Road Location

Geographic Location Latitude 31° 46' 39.9" S Longitude 117° 28' 03.7" E Altitude
 Reference Map

Photograph Photographer's Name Photo No

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW	
Surface Soil	<u>white sand</u>			Colour	<u>cream</u>								
Exposed rock	type			% surface									
Sub-surface Soil	<u>sand/clay</u>			Colour	<u>yellow</u>								
Rock	type			depth to rock									
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring					
Litter	<u>logs, twigs</u>	% cover	<u>70</u>	Bare Ground	<u>30</u>	% cover							
	Depth <u>5-10</u>	cm											

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	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					10-30
DOMINANT SPECIES					Euc. alba
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)		30-70			10-30
DOMINANT SPECIES		Gast. spinos Mel. unc Hakea trifurc			Myr. serata Boss erioe Acac spinosa
GRASSES		HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)	2-10	2-10		2-10	
DOMINANT SPECIES		Nardisia citrina		Lepidob charta	

4. VEGETATION CONDITION

Comments

excellent

Q436

Not uninit
add from
cover sheet

20x20
E. hypochalyum
ssp. new

Wahlenbergia gracilentia ✓ *Olay bentham*
Trachymene ornata
 ✓ *Millotia tenuiflora*
Poranthera microphylla
Lepidosperma
Hakea candolleana microscata
 ✓ *Diplolaena microstela* ~~*torrensii*~~ *velutina*
 (1/50)

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG 16 QU37
 DATE TRIP 20-9-2000 RECORDERS NQ/9K/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



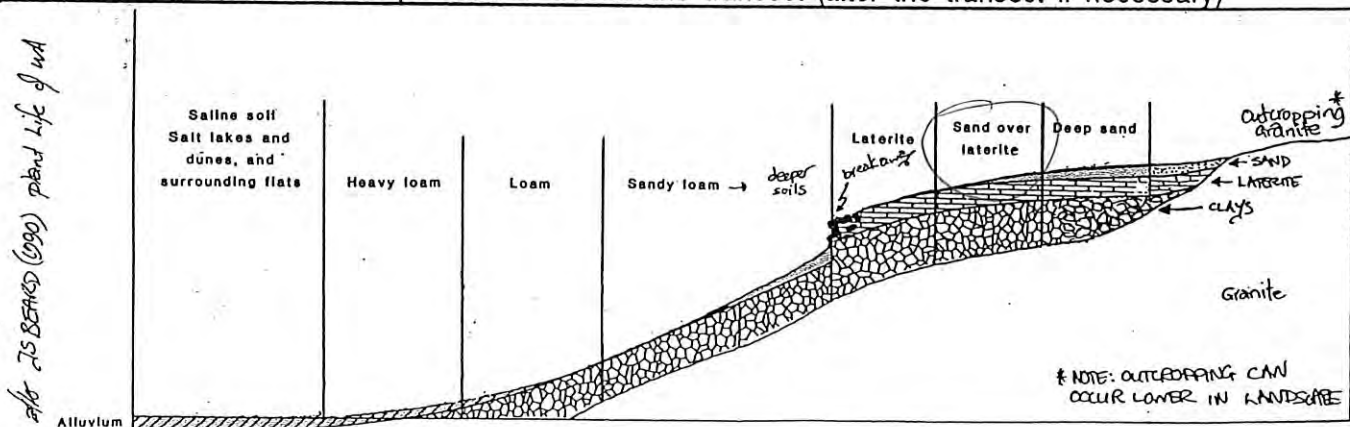
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____ 31°46'43.8" 117°28'20.3"

Photograph _____ Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil sandy clay Colour brown
 Exposed rock type lateritic pebbles % surface 10-30

Sub-surface Soil lateritic loam Colour _____
 Rock type laterite depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

Litter lvs, twigs, bark % cover 70-90 Bare Ground 10-30 %cover
 Depth 2-10cm

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

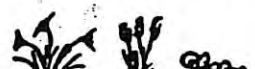
3. VEGETATION STRUCTURE AND COVER

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 (%)						10-30	
DOMINANT SPECIES						<i>Euc. leptophyll</i>	

SHRUBS				SHRUBS			
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)	2-10	30-70			2-10		
DOMINANT SPECIES	<i>Haked. graveis</i> <i>multi</i>	<i>Alloc. camp.</i> <i>Dryand circs</i>			<i>Phyb. tabere</i> <i>Ac. erinac</i>		

GRASSES		HERBS		SEDGES		SEDGES	
				over 0.5m	under 0.5m		
LIFE FORM						1m	
COVER CLASS (%)	L2	L2			L2		
DOMINANT SPECIES							

4. VEGETATION CONDITION

Comments

excellent

20.9.00

QU37

CHARLES GARDNER					
Site No. 16			Date Assessed		
Ma: Open Mallee over <i>Allocasuarina campestris</i> Heath			16-Sep-98		
Coll.No.	ID Name	Ht	% A	% D	
CG016.02	<i>Acacia erinacea</i>	30	0.5	✓	
	<i>Acacia leptospermoides</i>	120	0.5		
	<i>Allocasuarina campestris</i>	175	70	✓	
	<i>Austrostipa elegantissima</i>	30	0.1	✓	
CG016.04	<i>Baeckea crispiflora</i>	50	0.5	✓	
	<i>Dodonaea bursariifolia</i>	50	0.5	✓	
	<i>Drosera macrantha</i>	T	0.01	✓	
CG016.01	<i>Dryandra cirsioides</i>	150	3	0.5	
	<i>Eucalyptus leptophylla</i> — <i>hyphochlamydeae</i>	600	8		
	<i>Hakea incrassata</i> — <i>spp acalyptoides</i>	70	0.5	✓	
	<i>Hakea multilineata</i>	300	1.5	✓	
	<i>Hakea scoparia</i>	50	0.5	✓	
~~CG016.06~~	<i>Lepidosperma tenue</i>	30	0.01	✓	
CG016.05	~~<i>Melaleuca seriata</i>~~ — <i>?spathulata</i>	120	1	✓	
✓	<i>Melaleuca uncinata</i>	200	1	✓	
	<i>Neurachne alopecuroidea</i>	10	0.01	✓	
	<i>Phebalium tuberculatum</i>	50	1	✓	
	<i>Verticordia chrysantha</i>	30	0.1	✓	
	<i>Persoonia coriacea</i>				
	<i>Thysanotus patersonii</i>				
	<i>Calothamnus quadrif</i>				
	<i>Leptospermum roei</i>				
	<i>Scaevola (pinifolia)</i>				
	<i>Vulpia myuros</i>				
	<i>Millotia tenuifolia</i>				
	<i>Thysanotus thyrsoid (pyram)</i>				

4 lvs

CG
Collection # 16.3 det by BTL Mserintz
ded s/s for this #

20x20

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

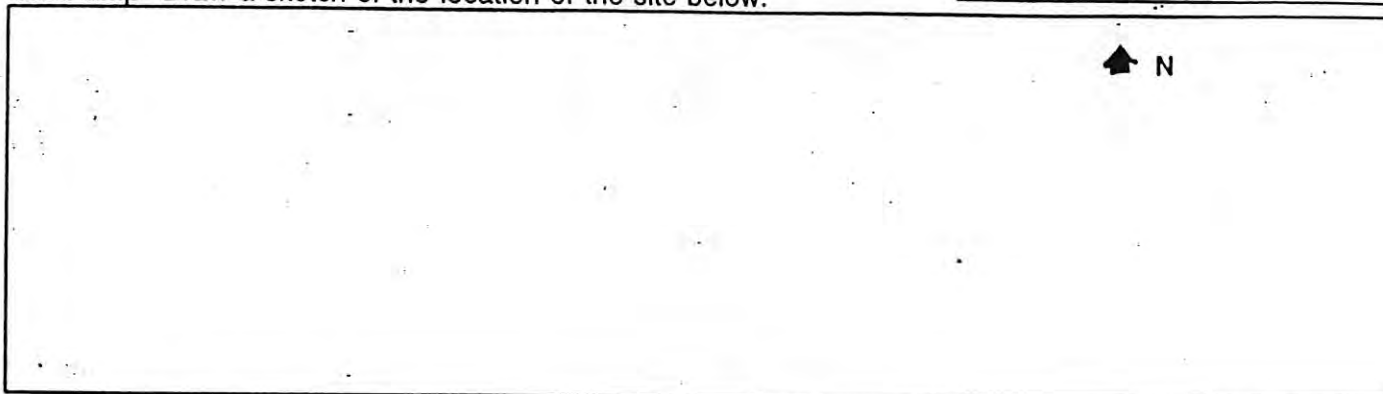
QU38

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG 17
 DATE TRIP 20-9-2000 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

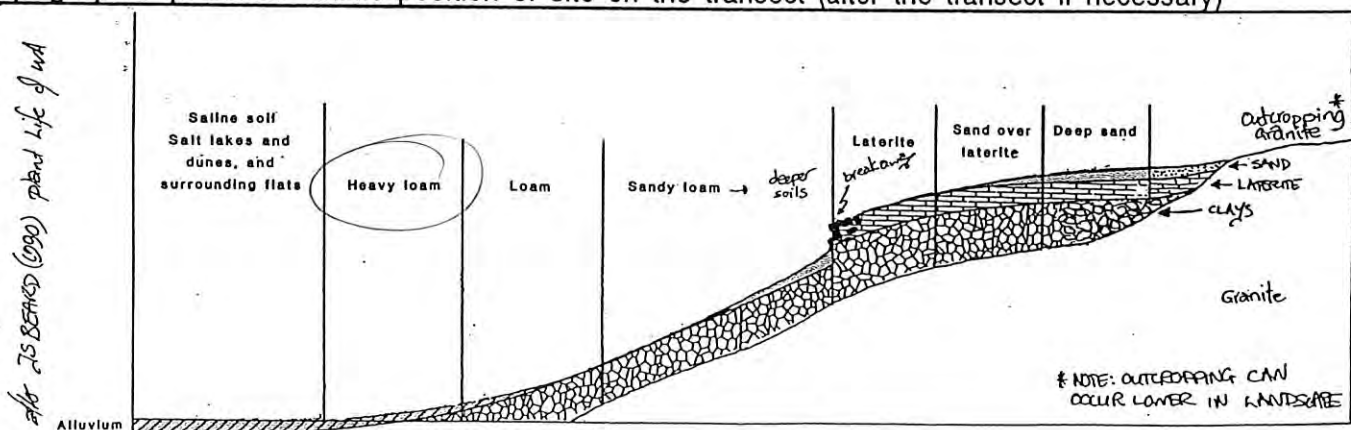


Road Location

Geographic Location Latitude 31°46'38.8" S Longitude 117°29'53.7" E Altitude _____
 Reference Map _____

Photograph Photographer's Name NG Photo No 01

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil sandy clay Colour brown
 Exposed rock type _____ % surface _____

Sub-surface Soil clay Colour brown
 Rock type _____ depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

Litter 1/5, bark, twigs % cover 30/70 Bare Ground 30/50 % cover
 Depth 2-3 cm

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 (%)	2-10			2-10			
DOMINANT SPECIES	<i>Euc. salmon</i>			<i>Euc. loxophl</i>			
SHRUBS					SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)	2-10		2-10				
DOMINANT SPECIES	<i>Ac. acumin</i>				<i>Rhag. priss</i> <i>Everm. drum</i>		
GRASSES		HERBS		SEDGES		under 0.5m	
LIFE FORM							1m
COVER CLASS (%)	<2	2-10					
DOMINANT SPECIES		<i>Lom. effusa</i>			<i>Lepidosperma</i>		

4. VEGETATION CONDITION

Comments

excellent

20.9.20

Q438

CHARLES GARDNER					
Site No. 17				Date Assessed	
Ws: <i>Eucalyptus salmonophloia</i> Woodland				16-Sep-98	
Coll.No.	ID Name	Ht	% A	% D	
CG017.09	<i>Acacia acuminata</i> ✓	250	2	✓	
CG017.08	<i>Acacia sphacelata</i> subsp. <i>sphacelata</i> ms ✓	100	1.5	✓	
CG008.10	<i>Amphipogon strictus</i> ✓	10	0.1	✓	
	<i>Dianella revoluta</i> ✓	40	0.5	✓	
CG017.03	<i>Dodonaea bursariifolia</i> ✓	40	3	✓	
CG017.06	<i>Dodonaea viscosa</i> ✓	45	0.5	✓	
CG017.05	<i>Eremophila drummondii</i> ✓	40	0.5	✓	
CG017.01	~~<i>Eucalyptus alba</i>~~ <i>loxophleba</i> ✓	1000	5	✓	
	<i>Eucalyptus salmonophloia</i>	1600	15	✓	
CG017.10	<i>Lomandra effusa</i> ✓	15	0.5	✓	
	<i>Neurachne alopecuroides</i> ✓	5	0.01	✓	
CG017.02	<i>Olearia axillaris</i> var <i>venecicola</i> ✓	160	5	✓	
CG017.12	<i>Podolepis capillaris</i> ✓	5	0.01	✓	
CG017.04	<i>Rhagodia preissii</i> subsp. <i>preissii</i> ✓	70	1	✓	
CG017.11	~~<i>Scaevola repens</i>~~ <i>humifusa</i> ✓ (USP)	2	0.05	✓	
	~~<i>Tetrahena laevis</i>~~ delete	30	0.1	✓	
	<i>Ursinia anthem</i>				
	<i>Calotis hispidul</i>				
	<i>Waltzia lacumin</i>				
	<i>Calandrinia eremaea</i> ✓ (USP)				
	<i>Trachymene cyanopt</i>				
	<i>Eremophyllum ramosum</i> ssp <i>ramosum</i>				
	<i>Hieracium calandula</i>				
	<i>Avena barbata</i>				
	<i>Senecio glossanthus</i>				

✓ *Crassula colorata* col -
Austrostipa elegantiss -

* *Schoenus* -

✓ *Brachycome iberidifol* -

Lomandra micrantha -

Enchylaena toment -

Austrostipa trichophylla -

Austroclanthonia occid -

✓ *Lepidosperma tenue* (USP) -

20x20

same

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

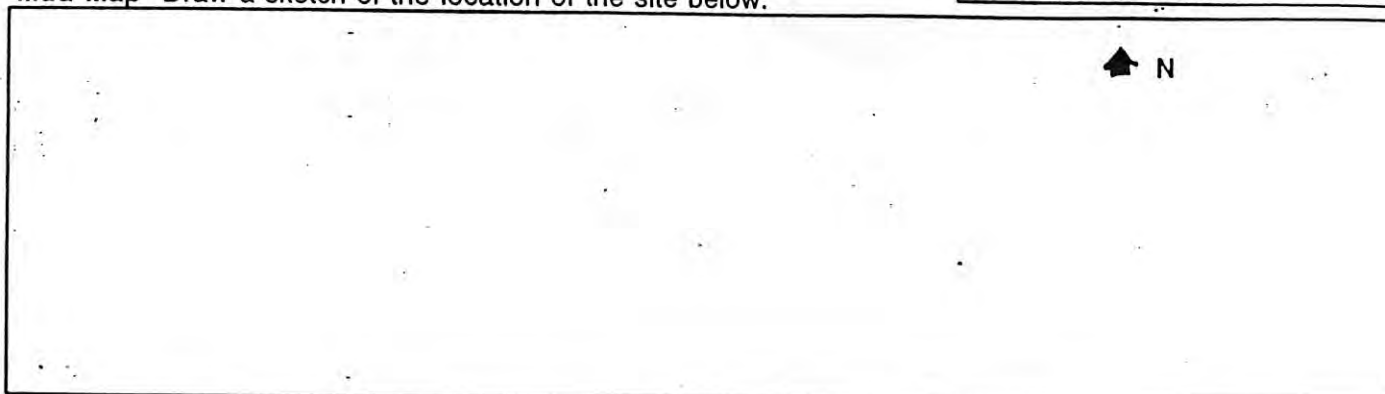
QU39

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG18
 DATE TRIP 20-9-2000 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

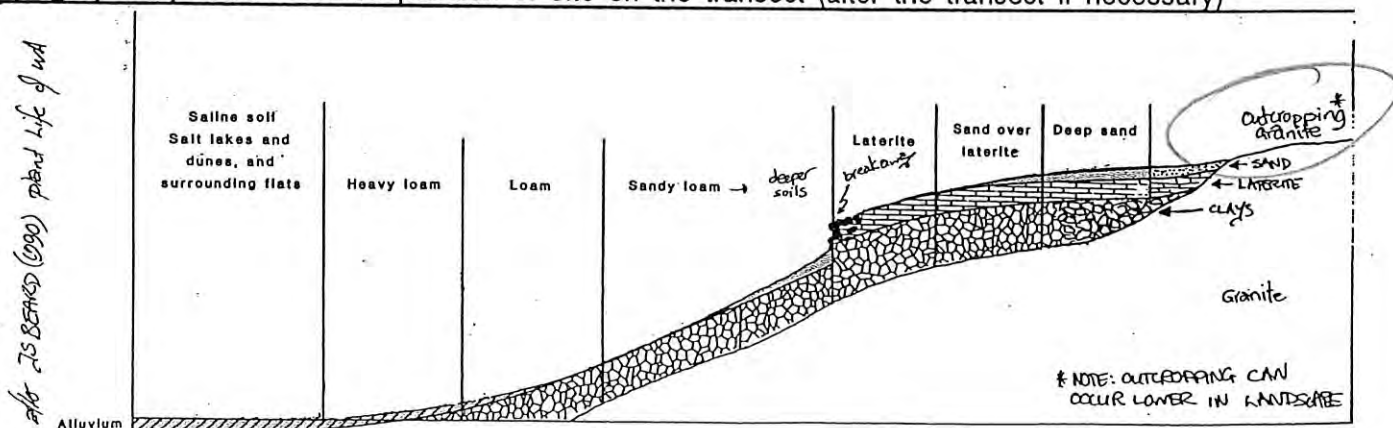


Road Location

Geographic Location Latitude 31°46'36.9" S Longitude 117°29'57.6" E Altitude _____
 Reference Map _____

Photograph Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil sandy clay Colour brown
 Exposed rock type _____ % surface _____

Sub-surface Soil clay-loam Colour brown
 Rock type granite depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

Litter lv, twigs % cover >90 Bare Ground 0-10 %cover
 Depth 2-3 cm

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 (%)			>70				
DOMINANT SPECIES			Ac. acumin				
SHRUBS					SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)	2-10						
DOMINANT SPECIES	Alloc. camp						
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM						1m	
COVER CLASS (%)	2-10	>70					
DOMINANT SPECIES	Austrost. trich	Banya sph Opstcul Wag					

4. VEGETATION CONDITION

Comments

very good
grazed in past

QU 39

CHARLES GARDNER					
Site No. 18			Date Assessed		
Wa: <i>Acacia acuminata</i> Low Woodland			16-Sep-98		
Coll.No.	ID Name	Ht	% A	% D	
	<i>Acacia acuminata</i>	500	70		
	<i>Allocasuarina huegeliana</i>	300	3		
	<i>Borya sphaerocephala</i>	3	30		
CG003.06	<i>Helipterum</i> sp.	4	0.01		
CG017.12	<i>Podolepis capillaris</i>	5	0.01		
CG018.01	<i>Stylidium ?scabridum</i>	4	0.1		
	<i>Allocas campestris</i>				
	<i>Opercularia vaginata</i>				
	<i>Waitzia acumin</i>				
	<i>Austrostipa trichophylla</i>			aff <i>evansii</i> (usr)	
	<i>Thysan patersonii</i>				
	<i>Millotia tenuif</i>				
	<i>Vulpia myurus</i>				
	<i>Caladenia saccharata</i>				
	<i>Brachycome iberid</i>				

- Gonocarp nodul*
Ceratogyne obionoides
Rhodanthe laevis
Amphipog debilis
Trachymene cyanopet
Centrolep drummona
Centrolep aristata
Brachycome glandul
Lobelia
Austrostipa elegant
Trachymene ornata
Podolepis lessonii
Drosera glanduligera
Phyllangium paradoxum (y-j)
Wahlenbergia graecenta prainii
Nerachne alopec
Arthropod capillipes
Paentucella latifolium
(Rhodanthe) manglesii (coll)
Stenanthemum tridentatum
Ursinia anthem
Chaemascilla (caryophyll) *Versicolor* (1/2 lvs)
Aira caryophylla
Hypochaeris glabra
Hydrocotyle callicarpa
Laurenzella davenp (opp lvs)
Stylidium calcaratum
Arthrop curvipes
Euc. loxophleba

20x20

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

QU40

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG 19
 DATE TRIP 20-9-1995 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



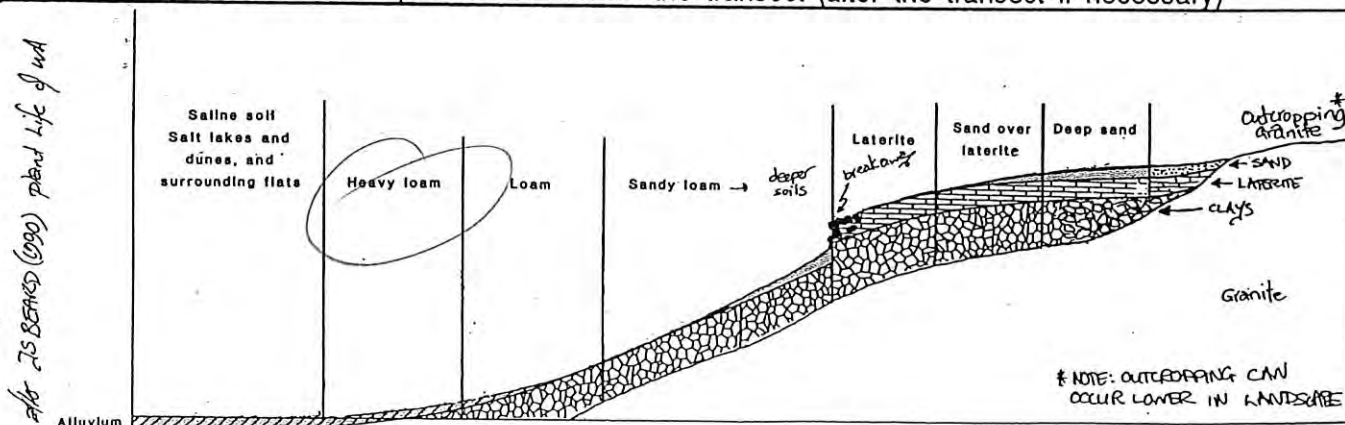
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____ 31°46'27.4" 117°29'40.4"

Photograph Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope	<u>flat</u> gentle steep	Aspect	N NE E SE S SW W NW
Surface Soil	type <u>clay</u>	Colour	
Exposed rock	type _____	% surface	<u>grey</u>
Sub-surface Soil	type <u>clay</u>	Colour	
Rock	type _____	depth to rock	
Drainage	<u>well mod</u> poor depth water	cm	Wet all year winter/spring
Litter	<u>lvs, twigs</u>	% cover	<u>30-70</u>
Depth	<u>2-5</u> cm	Bare Ground	<u>50</u> %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						30m	10m
COVER CLASS (%)	2-10			30-70			
DOMINANT SPECIES	<i>Euc. salm</i> (20x20m)			<i>Euc. erythro</i> <i>Euc. gracilis</i> <i>leatye</i>			
SHRUBS						SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)					10-30		
DOMINANT SPECIES					<i>Olea mucelleri</i> <i>Ac. hemiteles</i> <i>Enchyl. 40m</i>		
GRASSES		HERBS		SEDGES		over 0.5m	
						under 0.5m	
LIFE FORM						1m	
COVER CLASS (%)	2-10	2-10					
DOMINANT SPECIES	<i>Austros eleg</i>	<i>Daucus</i> mixed					

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

QU41

BUSHLAND AREA Charles Gardner NP SITE NUMBER CG20
 DATE TRIP 20-9-2000 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



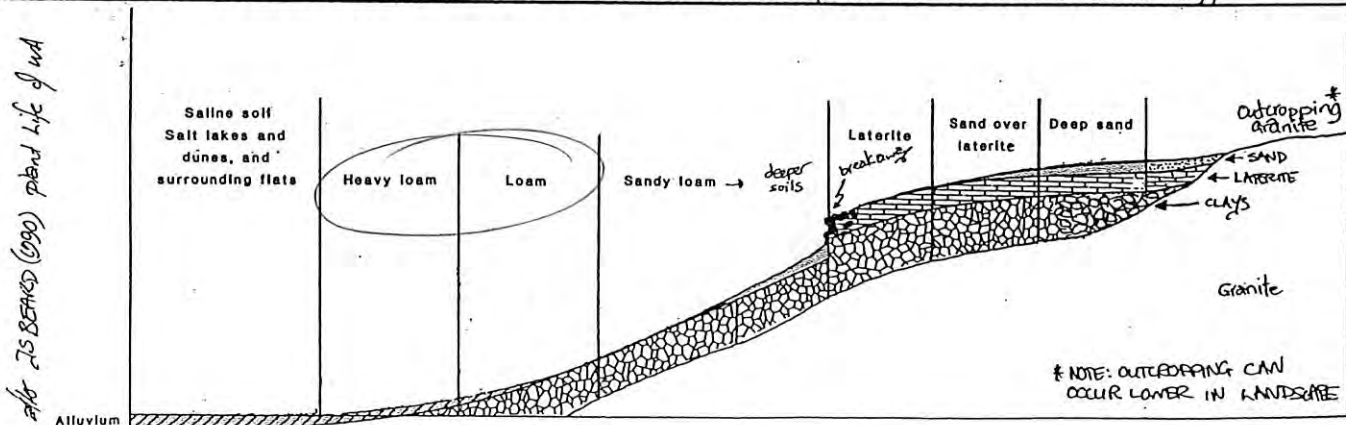
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____ 31°46'41.3" 117°29'44.3"

Photograph Photographer's Name _____ Photo No _____

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil sandy clay Colour brown
 Exposed rock type _____ % surface _____

Sub-surface Soil clay Colour _____
 Rock type _____ depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

er 1/4 bark, twigs % cover 70/90 Bare Ground 10/30 %cover
 Depth 2-10 cm

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						<i>Euc. vylron</i> <i>Euc. capillosa</i> <i>hebetifolia</i>	
SHRUBS					SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)	10-30				2-10		
DOMINANT SPECIES	<i>Mel. undulata</i> <i>Daviesia</i>				<i>Olearia muelleri</i> <i>Enchyl. tom</i>		
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM						1m	
COVER CLASS (%)	10-30	10-30					
DOMINANT SPECIES	<i>Vulpia myuros</i>	<i>Ursinia anth</i> mixed					

4. VEGETATION CONDITION

Comments

very good

CHARLES GARDNER					
Site No. 20				Date Assessed	
Mc: Mallee over <i>Melaleuca</i> affin. <i>undulata</i> Heath				16-Sep-98	
Coll.No.	ID Name	Ht	% A	% D	
CG020.04	* <i>Arctotheca calendula</i>	15	0.02		✓
CG019.08	<i>Austrostipa elegantissima</i>	40	0.1		✓
CG019.06	<i>Enchylaena tomentosa</i>	3	0.1		✓
CG020.05	<i>Eremophila drummondii</i>	20	0.1		✓
CG019.01	<i>Eucalyptus erythronema</i>	500	40		✓
CG020.01	<i>Eucalyptus wandoo</i> "transcont" fls	500	15		✓
CG020.03	<i>Goodenia berardiana</i>	15	0.01		✓
CG020.02	<i>Melaleuca</i> affin. <i>undulata</i>	150	60		✓
CG019.07	<i>Trachymene cyanopetala</i>	3	0.01		✓
	<i>Hypochaeris glabra</i>				
	<i>Hyalosperma demiss</i> Rhodantha pygmaea				
	<i>Ursinia anthem</i>				
	<i>Hyalosp glutinosa</i> glutin				
	<i>Eremophyllum ramos</i> ramos				
	<i>Rhodantha laevis</i>				
	<i>Calotis hispidula</i>				
	<i>Bromus madritense</i>				
	<i>Lobelia gibbosa</i>				

5m Mallee
silver grey bark
blue-grey
lvs

QU41

lobelifolia

M French
det.

Poranthera microp

Wahlenb gracil

Dioscorea glandul

Crassula color

Brachycome gland

Levenhookia dubia

Thys mangl

Pentaschistis air

Mollis myia

Blennospora drumm

Triglochin calcitrapum sep incurvum

Plantago aff hispidula

Calandrinia eremaea

Ptilotus polystachy

Hydrocotyle rugulosa

Podolepis teppei

Austrodanthonia

Vulpia myuros

Podotrocha angustif

Brachycome iberioidifol

Thysanotus patesonii

Centrolepis ? inconsp aff. formis

Podolepis lessonii

3 are collected

20.9.00

E. flor² vs.

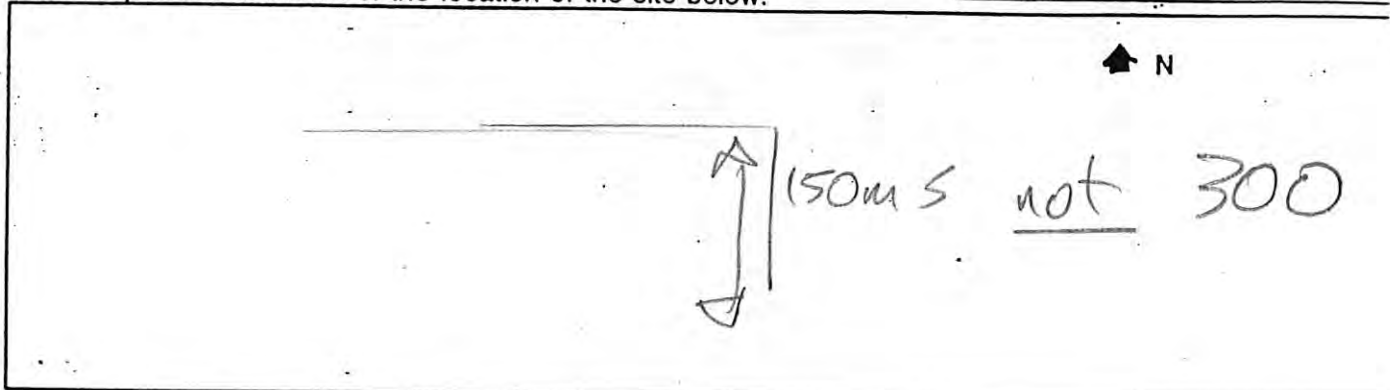
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Charles Gardner NP SITE NUMBER C921 QU42
 DATE TRIP 20-9-2000 RECORDERS NG/GK/WM
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



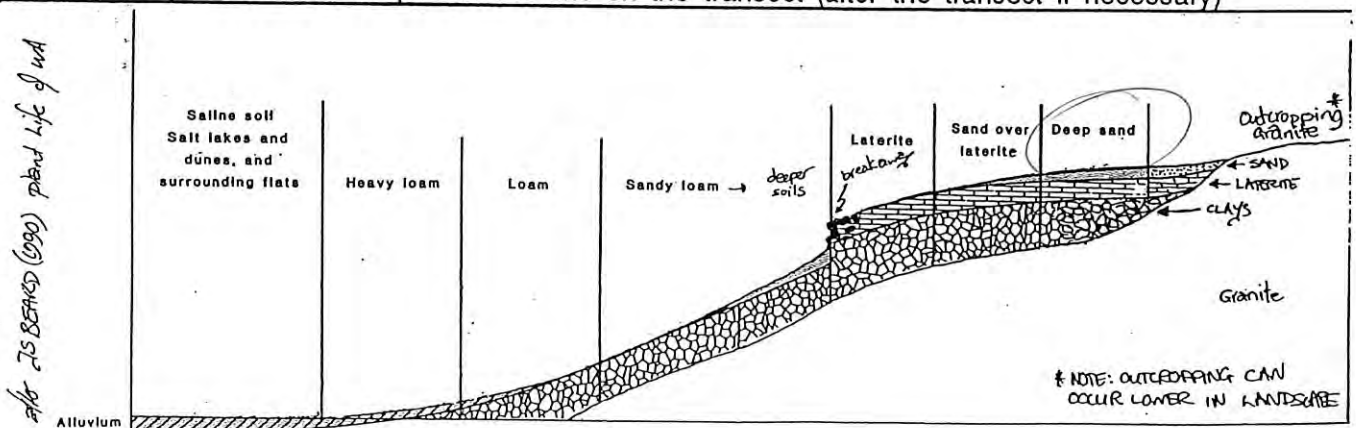
Road Location

Geographic Location Latitude 31°46'47.9" S Longitude 117°29'48.5" E Altitude _____

Reference Map 547039 6483833 8 sats PROP

Photograph Photographer's Name _____ Photo No 109

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil sand Colour grey
 Exposed rock type _____ % surface _____

Sub-surface Soil sand Colour grey
 Rock type _____ depth to rock 22m

Drainage well mod poor depth water cm Wet all year winter/spring

Litter 1/5 twigs % cover 30/70 Bare Ground 30/50 %cover
 Depth 2-50 cm

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 (%)							
DOMINANT SPECIES							
SHRUBS					SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)		10-30			30-70		
DOMINANT SPECIES	Dry	Allocas camp Hakea circ Petrocar eric			Eremophila pauc DAVIDSONIA		
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM						1m	
COVER CLASS (%)	2-10	2-10			30-20		
DOMINANT SPECIES	Neorhine aloph	Oporc vag			Lepidos chart Mason preiss		

4. VEGETATION CONDITION

Comments

excellent

QU42

CHARLES GARDNER					
Site No. 21			Date Assessed		
Km: Scrub Heath			16-Sep-98		
Coll.No.	ID Name	Ht	% A	% D	
	* <i>Aira caryophyllea</i>	5	0.1		
	* <i>Ursinia anthemoides</i>	5	0.01		
	<i>Allocasuarina campestris</i>	150	2		
	<i>Allocasuarina microstachya</i>	15	0.1		
	<i>Astroloma serratifolium</i>	20	0.2		
	<i>Austrostipa elegantissima</i>	100	0.01		
CG005.13	<i>Blennospora drummondii</i>	4	0.05		
CG07.03	<i>Ceratogyne obionoides</i>	2	0.05		
	<i>Conostylis setigera</i>	20	0.01		
	<i>Crassula colorata</i>	3	0.2		
	<i>Dampiera lavandulacea</i>	3	1		
CG021.03	<i>Daviesia incrassata</i>	25	0.5		
	<i>Daviesia nudiflora</i>	60	0.25		
	<i>Dodonaea pinifolia</i>	40	1.5		
CG021.02	<i>Drosera andersoniana</i>	2	0.01		
	<i>Drosera stolonifera</i>	2	0.01		
CG008.08	<i>Dryandra cirsioides</i>	60	1		
	<i>Eremaea pauciflora</i>	50	5		
CG021.01	<i>Gnephosis</i> (sp.) <i>drummondii</i>	2	0.01		
	<i>Grevillea hookeriana</i>	150	1.5		
	<i>Hakea incrassata</i>	50	3		
	<i>Hakea stumosa</i>	150	3		
CG021.05	<i>Hibbertia hypericoides</i>	20	0.5		
	<i>Hypochaeris glabra</i>	1	0.01		
	<i>Lepidobolus chaetocephalus</i>	10	1.5		
	<i>Melaleuca leptospermoides</i>	40	1		
	<i>Mesomelaena preissii</i>	40	15		
CG009.02	<i>Neurachne alopecuroides</i>	2	0.1		
	<i>Petrophile ericifolia</i>	40	3		
	<i>Podotheca angustifolia</i>	10	0.01		
	<i>Quinetia urvillei</i>	5	0.01		
CG021.04	<i>Schoenus</i> sp. <i>subglauca</i>	5	0.01		
	<i>Trachymene cyanopetala</i>	2	0.1		
	<i>Verticordia densiflora</i>	40	0.1		
	<i>Verticordia picta</i>	15	0.1		
	<i>Wahlenbergia</i> sp.	2	0.05		
	<i>Vulpia myuros</i>				
	<i>Austrostipa macalpin</i>				
	<i>Opuntia vagin</i>				
	<i>Leporella fimbri</i>				
	<i>Drosera zonaria</i>				

Gompholobium obscurum *Amphipogon turbin* *Caladen flava*
~~viscid~~ *Harpertia lateriflora* *Millotia tenuif*
Chaenascilla *Brachycome iberioides* *Vertic roei*
corymbosa (maylus) *Pentascistis airoid*
Wahlenb gracibressii *Borya sphaeroceph*
Cassytha flava *Stylidium ? repens* *sacculatum*
~~strobil~~

**CHARLES GARDNER
NATIONAL PARK**

**Plot Locations
Site Parameters
Vegetation Data**

90m - ralston Rd CG7 60m N 4.6 km, boundary sign @ 4.8

CLM012 - Charles Gardner					
Date	Site	Map code	GPS UTM	K/J	Location
15/09/98	~~CG1~~	G	50544381	6481793	Site 40m S from SW corner of granite outcrop which is 1.3 km down Ralston Rd.
15/09/98	~~CG2~~	S	50543877	6482234	Site 15m N, 0.65km from Charles Gardner Rd on Ralston Rd.
15/09/98	~~CG3~~	Wh	50544426	6481728	Site 30m SW, 1.3km from intersection of Ralston and Charles Gardner Rd.
15/09/98	~~CG4~~	Kh2	50543885	6482321	Site 80m NW, 400m from fork of Quartermaine and Ralston roads.
15/09/98	~~CG5~~	W1	50544307	6482507	Site 30m S, 0.9km on Charles Gardner Road E from Ralston Rd.
15/09/98	~~CG6~~	Ww	50545206	6482645	Site 50m N, 1.85km East on Charles Gardner Road from Ralston Rd.
15/09/98	CG7	Ka1	50547921	6482464	Site 60m in, 4.5km E on Charles Gardner Road from Ralston Road (near Eastern Boundary on Charles Gardner Road).
15/09/98	~~CG8~~	Kt	50545055	6482747	Site 40 m N of road, 14km from intersection of Charles Gardner and Ralston roads.
15/09/98	~~CG9~~	Ka2	50547645	6482330	Site 30m N, 4.4km E on Charles Gardner Road from Ralston Road.
15/09/98	~~CG10~~	Kc/Km	50546758	6482564	Site ?, 3.2 km from intersection of Charles Gardner and Ralston roads.
15/09/98	~~CG11~~	Kh1	50547233	6482767	Site 30m E from access track, 200m E of its junction with road.
16/09/98	~~CG12~~	WF2	50544695	6483573	Site 300m S (all flagged), 1.0km E along northern firebreak.
16/09/98	~~CG13~~	WF1	50544681	6483597	Site 10m to S of CG12, (1.0km E along northern firebreak).
16/09/98	~~CG14~~	Mm	50544614	6483976	Site 40m in, 1.0km E along northern firebreak.
16/09/98	~~CG15~~	Mg	50544282	6484091	Site 50m in, 0.7km along northern firebreak from Ralston Rd.
16/09/98	~~CG16~~	Ma	50544719	6483969	Site 25m in, 1.1km E along northern firebreak from Ralston Rd.
16/09/98	~~CG17~~	Ws	50547177	6484113	Site 40m W, 190m N of intersection with Northern Boundary Rd, 3.5km from NW corner.
16/09/98	~~CG18~~	Wa	50547279	6484171	Site 30m N from same point as CG17.
16/09/98	~~CG19~~	M	50546920	6484441	Site 400m N from initial point described for site 17.
16/09/98	~~CG20~~	Mc	50546928	6484035	Site 30m N, 130m N along track, 3.2km along Northern Boundary, then 300m W along boundary.
16/09/98	~~CG21~~	Km	50547242	6483724	Site 30m W, 300m S of intersection that is 3.4km along Northern Boundary Rd.

50 54 6827

64 84466

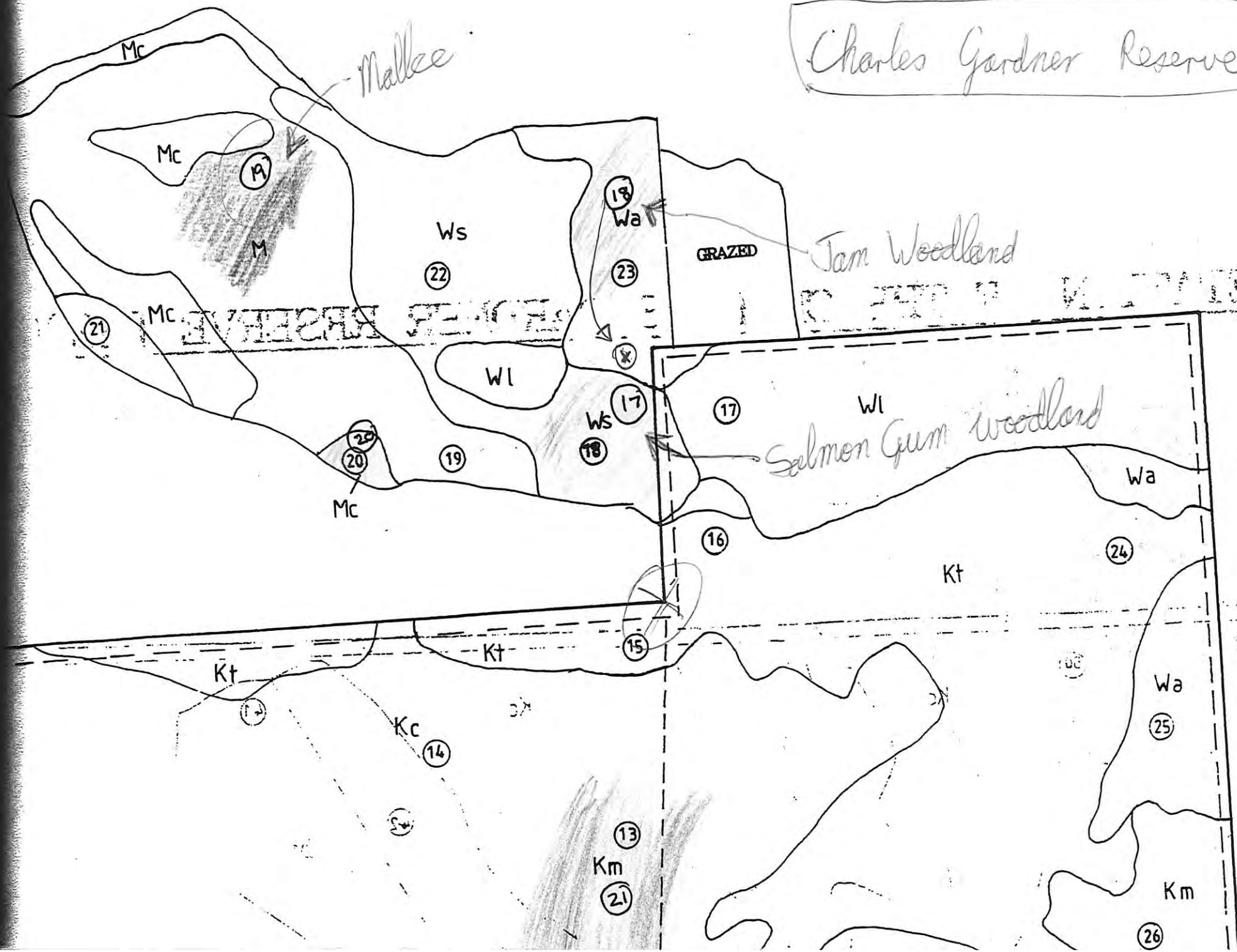
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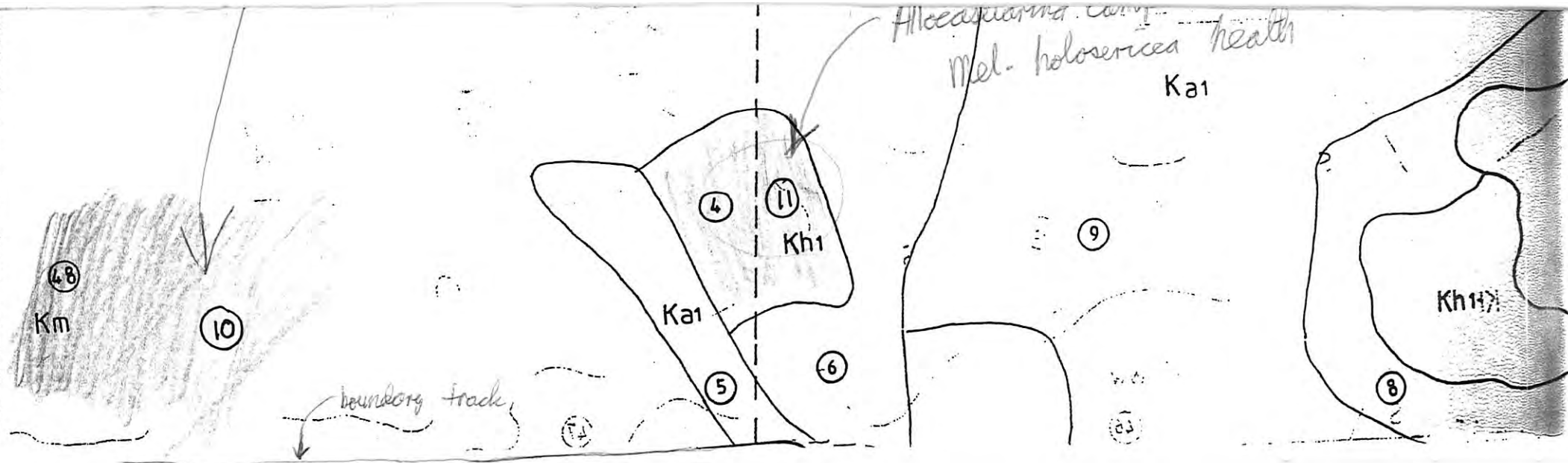
S east of

west corner on N. boundary

CLM012															
Charles Gardner															
Site No.	Date	Veg. Type	Topography	Age since fire	Cover	Litter Type	Outcropping Type	Quant	Aspect Slope	Heading	% bg	Soils CSS ratio	Colour	Pebble Type	Size
1	15/09/98	G	MS		2	T	Gran	occ		SE	10	5:02:03	10YR2/2	nil	NA
2	15/09/98	S			1	T	nil	nil	nil	NA	20	0:02:08	10YR5/4	nil	NA
3	15/09/98	Wh	MS	> 3	40	Lv > T > Lg	nil	nil	1	NE	2	0:02:08	10YR5/4	nil	NA
4	15/09/98	Kh2	MS	> 3	10	Lv > T	nil	nil		NW	55	0:01:09	10YR7/4	nil	NA
5	15/09/98	Wl	LS		8	Lv, T	nil	nil			5	0:02:08	10YR4/2	nil	NA
6	15/09/98	Ww	LS		3	Lv, T					10	0:02:08	10YR6/2		
7	15/09/98	Ka1	MS		10	Lv, T	nil	nil		E	50	0:02:08	10YR6/2		
8	15/09/98	Kt	US	> 3	10	Lv > T	nil	nil	nil	NA	30	0:07:03	10YR7/4	nil	NA
9	15/09/98	Ka2	US		10	Lv, T, Lg	nil	nil		E	5	0:02:08	10YR5/4		
10	15/09/98	Kc/Km	MS	> 3	10	Lv > T	nil	nil	nil	NA	30	0:01:09	10YR6/2	nil	NA
11	15/09/98	Kh1	US	> 3	10	Lv > T	nil	nil	2	N	10	0:05:05	10YR6/2	Lat	< 1
12	16/09/98	Wf2	MS		50	Lv, T				W	5	1:05:04	10YR5/4	Lat	< 20
13	16/09/98	Wf1			30	Lv, T, Lg	Lat	occ			5	1:05:04	10YR5/4	Lat	< 20, > 20
14	16/09/98	Mm	LS		30	Lv, T				W	10	0:02:08	10YR6/2	nil	NA
15	16/09/98	Mg	LS		30	Lv, T	nil	nil		W	15	0:02:08	10YR6/2	nil	NA
16	16/09/98	Ma			5	Lv, T	nil	nil	nil	NA	5	2:04:04	10YR5/4	Lat	< 20
17	16/09/98	Ws	MS	> 3	30	Lv > T > Lg	nil	nil	nil	NA	60	0:03:07	10YR5/4	Lat	< 1
18	16/09/98	Wa	MS	> 3	80	Lv > T	nil	nil	nil	NA	10	1:06:03	10YR6/2	nil	NA
19	16/09/98	M	MS	> 3	50	Lv > T > Lg	nil	nil	nil	NA	40	2:07:01	10YR6/2	nil	NA
20	16/09/98	Mc	US	> 3			nil	nil	nil	NA		0:06:04	10YR6/2	nil	NA
21	16/09/98	Km	MS	> 3			nil	nil	4	S		0:02:08	10YR6/2	nil	NA

Charles Gardner Reserve (3)





Kc / Km

Km

S

Eye window open woodland
over *All. campestris*
heath

York gum
woodland

(5)

Kt

Ww

(6)

(66)

Kt

S

S

(5)

Km

Kt

open *Allocasuarina*
over *Mel. holosericea* heath

Wl

(71)

G

(72)

Kt

Wh

Wl

(73)

Charles Gardner Reserve (1)

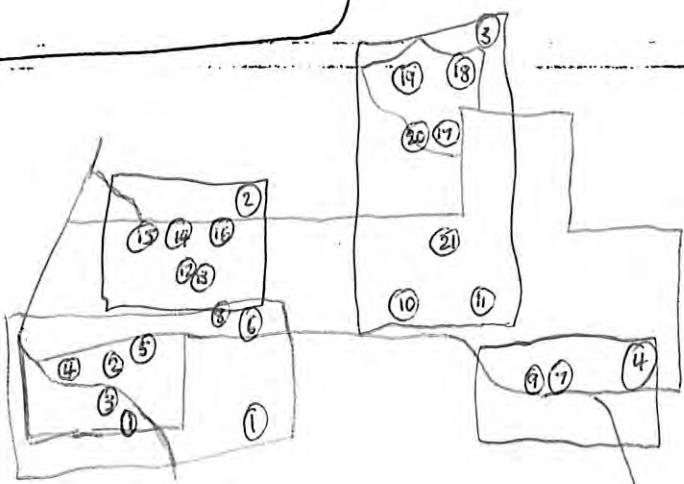
(1)

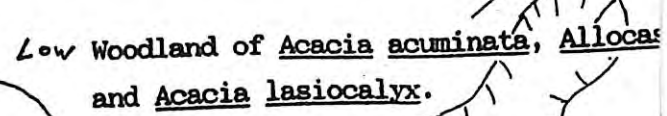
(1) (74) (5)

granite rock
surface

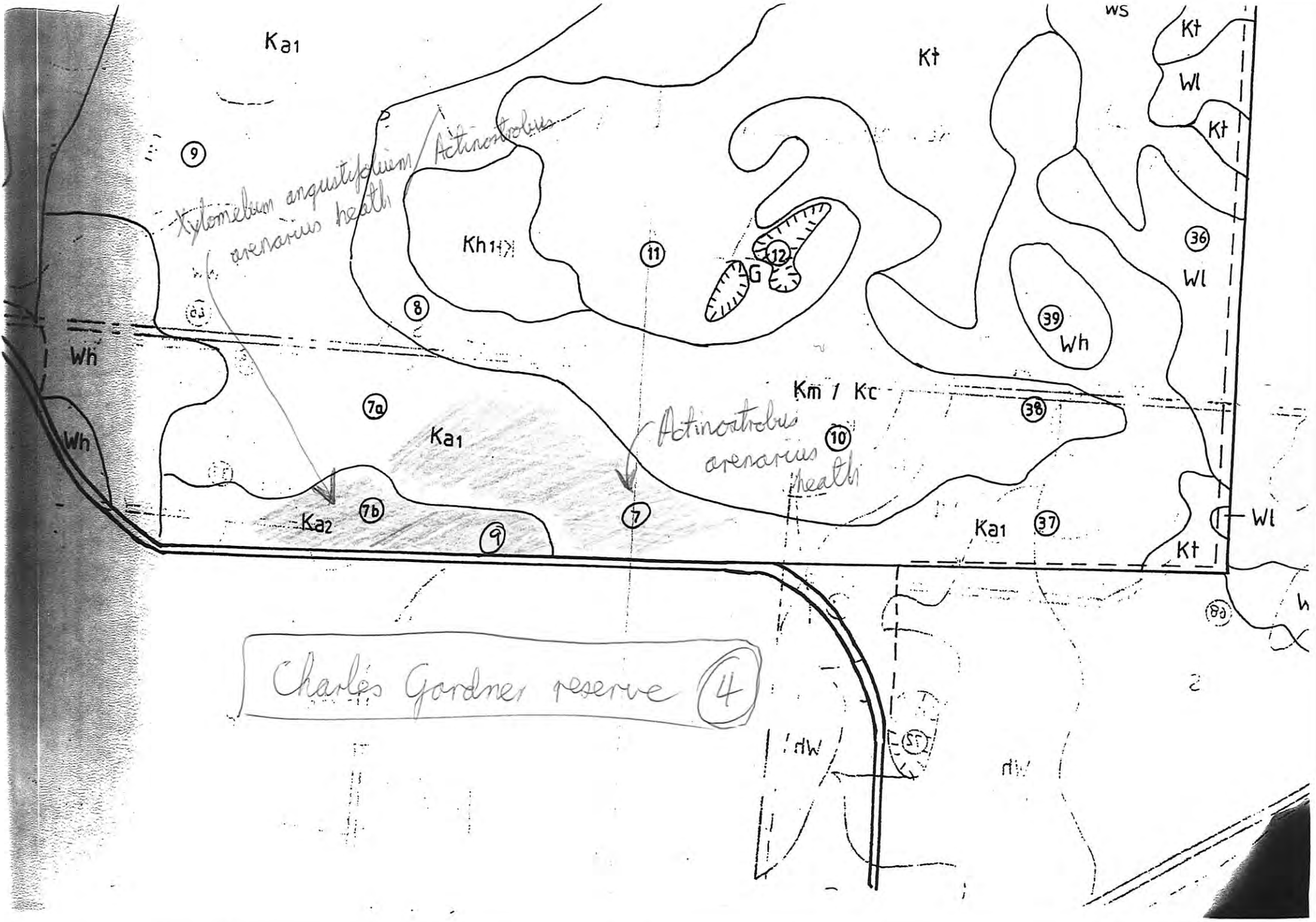
uarina huegeliana

↑
approx
N



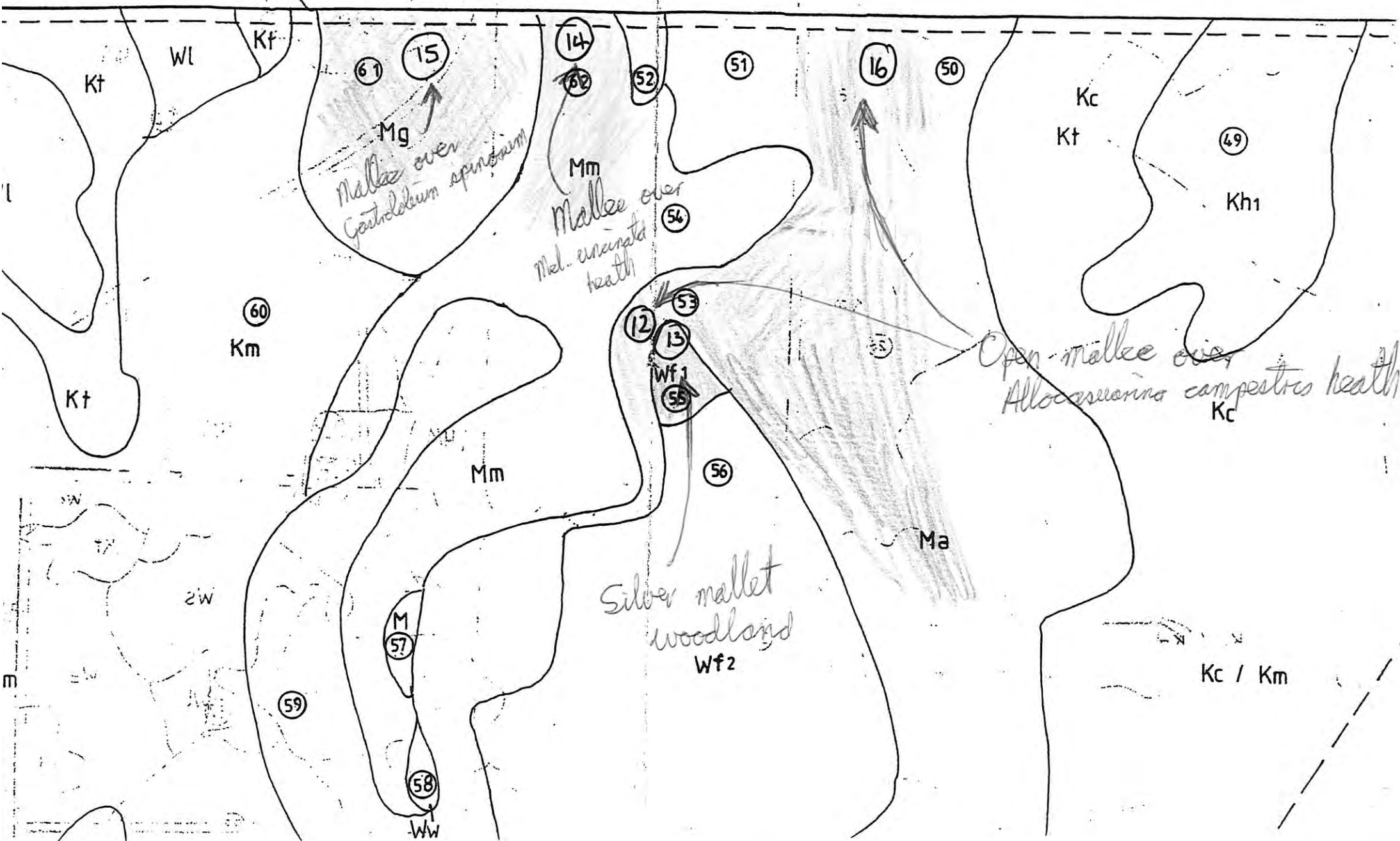


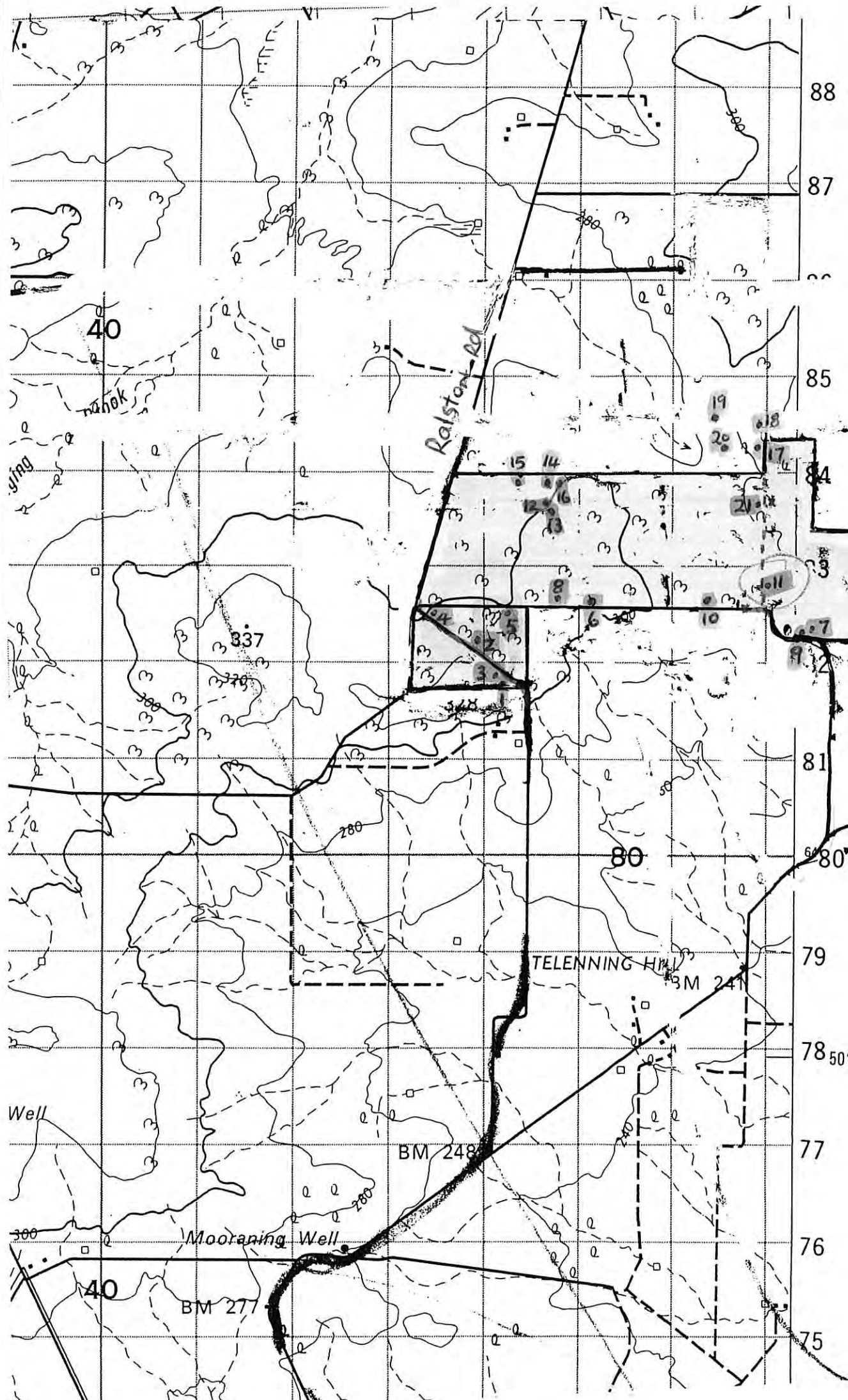
Low Woodland of Acacia acuminata, Allocas
and Acacia lasiocalyx.



WL
AZED

Charles Gardner Reserve (2)





CON'

M
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ML SOUTH TAM. IN.

547055
6483753

2cm = 1km

05/10/00

11:50

CALM MERREDIN → 61 8 9306 1641

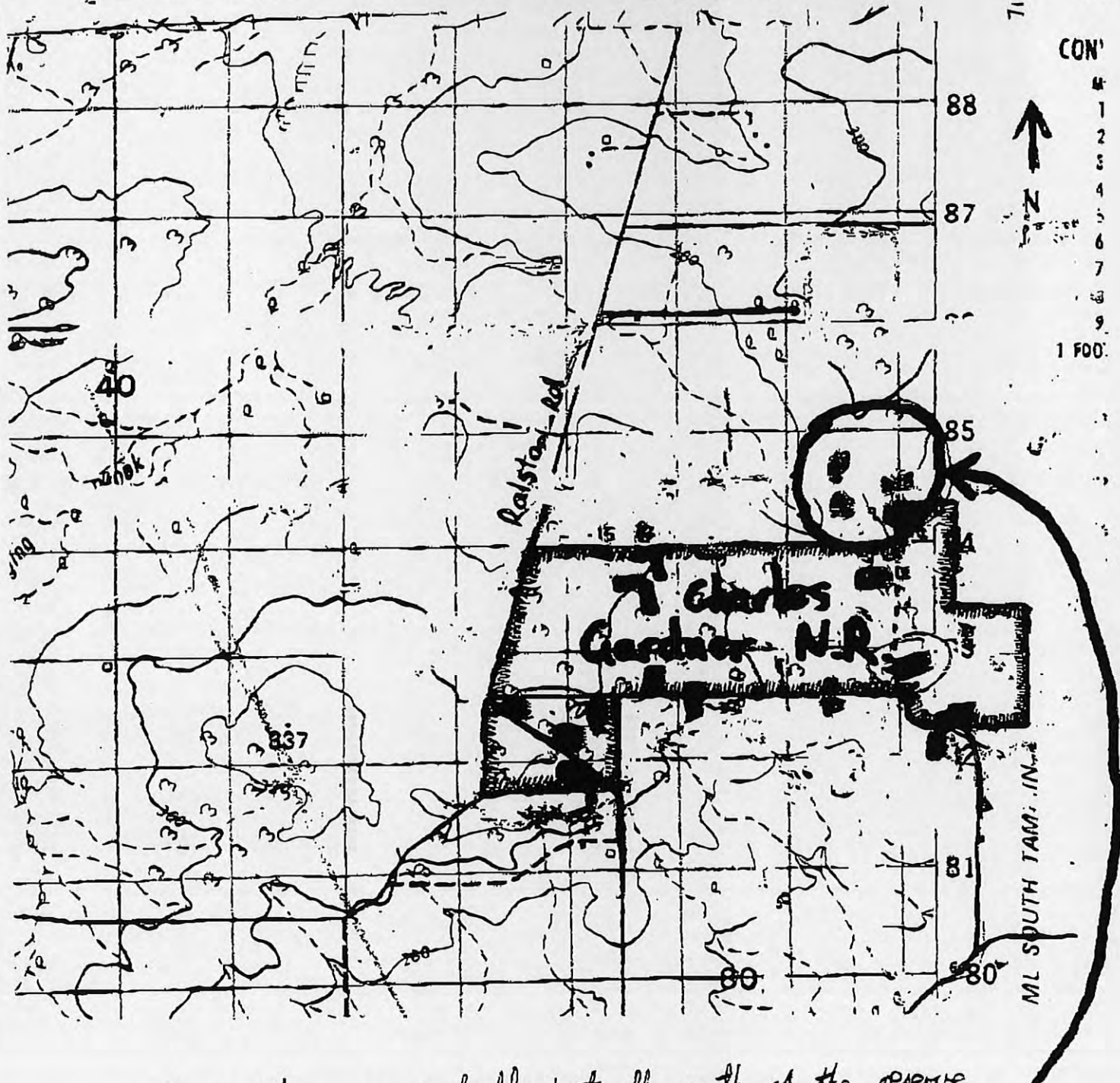
NO. 741

D01

DEPT CALM MARRKUGIN

Fax: 08 9306 1641

002



It is this area of bushland to the north of the reserve, that I am enquiring about, there are fences separating it, but no closed gates.

Attention: Andrew Webb

Thanks

Andrew Webb.

Andrew,

The area you have indicated is ideal private property according to our GIS and maps.

Regards,

[Signature]