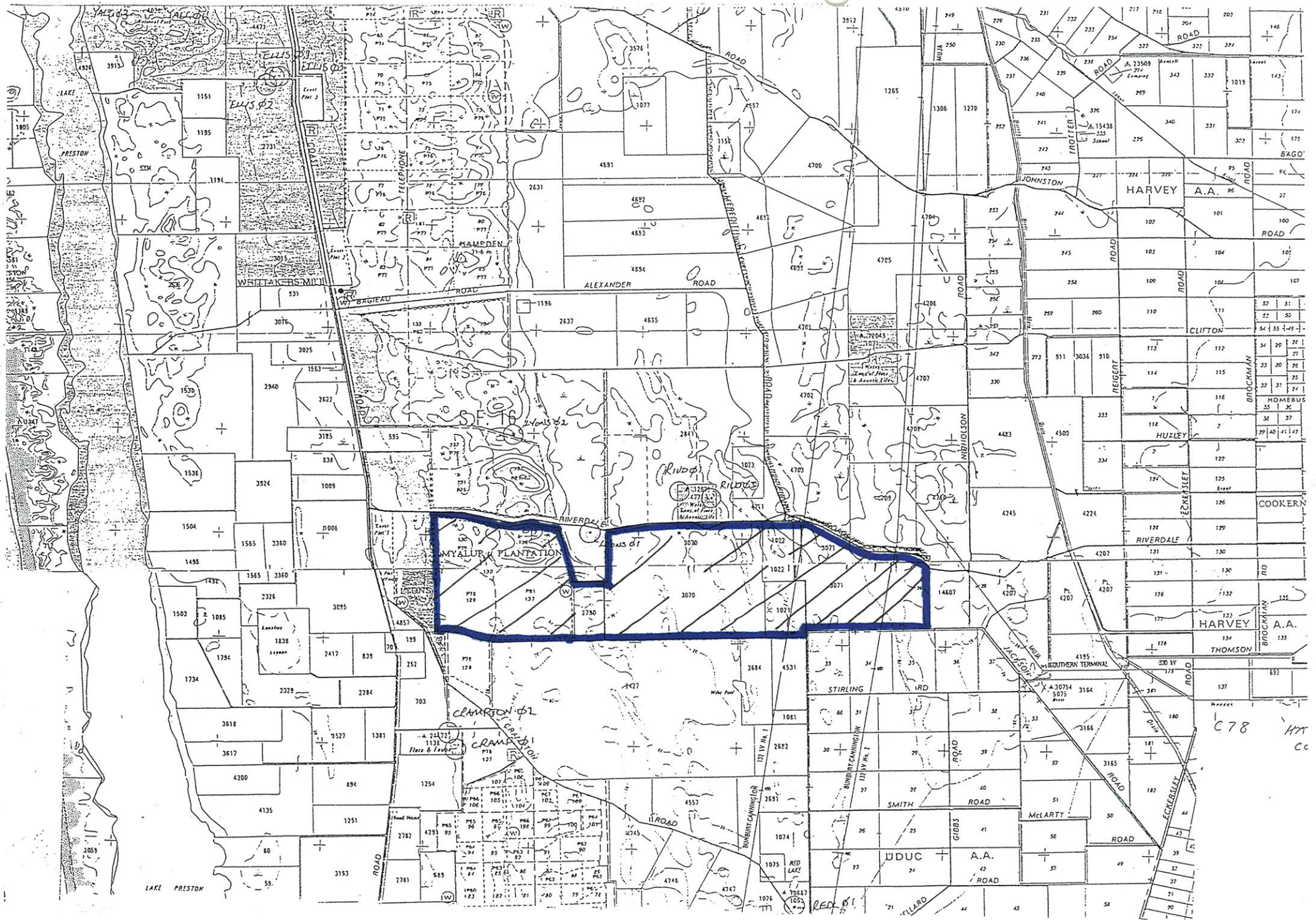


-- New Track  
Ⓟ Evandra Swamps  
Ⓢ Swamp (descript)  
① Sites 1-6

(330) CHIDLOW'S PLACE  
CHID 01-06  
-- NEW TRACK  
Ⓟ Evandra swamps  
Ⓢ Swamp (descript)





LAKE PRESTON

C78 HT CC



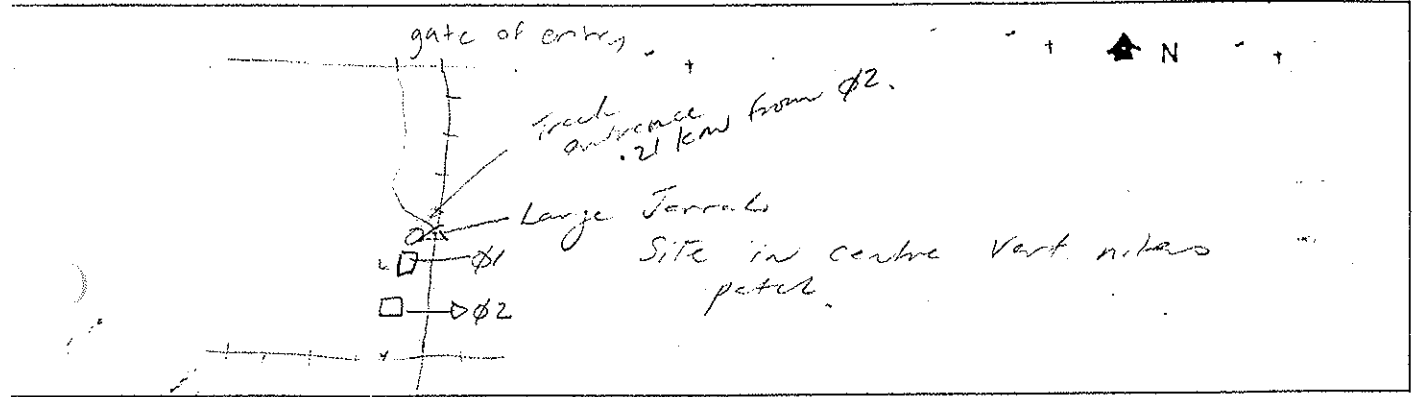
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Childlow's property SITE NUMBER CH1001  
 DATE TRIP 15-11-95 RECORDERS BTC NCT  
 DATE TRIP 15/12/95 RECORDERS \_\_\_\_\_  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 BOTANIST \_\_\_\_\_

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 24 Nedlands WA 6008.

LOCATION of the QUADRAT

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



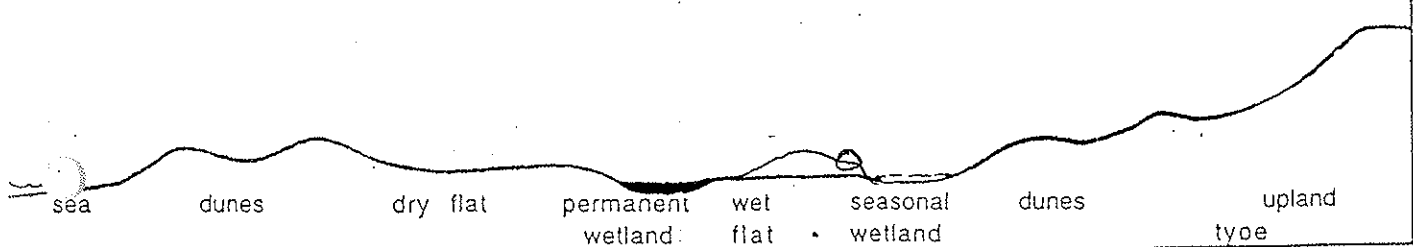
Road Location Riverdale Rd

Geographic Location Latitude 33°00' 81" S Longitude 115°48' 577" E Altitude \_\_\_\_\_

Reference Map 0.1 km N of site phi 2

Photograph Photographer's Name NCT Photo No 14

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 brown

Exposed rock type - % surface \_\_\_\_\_

Sub-surface Soil sand Colour white

Rock type - depth to rock \_\_\_\_\_

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

Litter 30-70 % cover Bare Ground < 2 % cover  
 Depth up to 2 cm



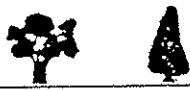







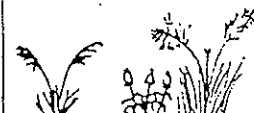


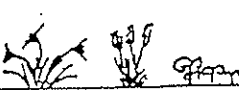
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the 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 30m	15-30m	8-15m under 5m	over 8m	under 8m	
		 Low Woodland A			
LIFE FORM				30m	10m
COVER CLASS (%)		10-30			
DOMINANT SPECIES		B. ulic B. atten			
SHRUBS			SHRUBS		
over 2m	2m - 1.5m	1.5-1m	1-0.5m	under 0.5m	
		 Heath B	 Dwarf Scrub C	 Low Heath D	
LIFE FORM				2m	1m
COVER CLASS (%)		30-70	10-30	30-70	
DOMINANT SPECIES		Vert nitens Mel thy	Calytrix Aca	Cal. flavescens Can pend A. prae-sil	
GRASSES		HERBS	SEDGES	over 0.5m	
					
LIFE FORM				1m	
COVER CLASS (%)		10-30		2-10	
DOMINANT SPECIES		Phlox cil. Dasyp brom.		Lycopodium barb. Hypochaeris exsca	

OK (4/4)

4. VEGETATION CONDITION

1	'PRISTINE'	✓	COMMENTS lots of Banksia seedlings no weeds
2	EXCELLENT		
3	VERY GOOD		
4	GOOD		
5	DEGRADED		



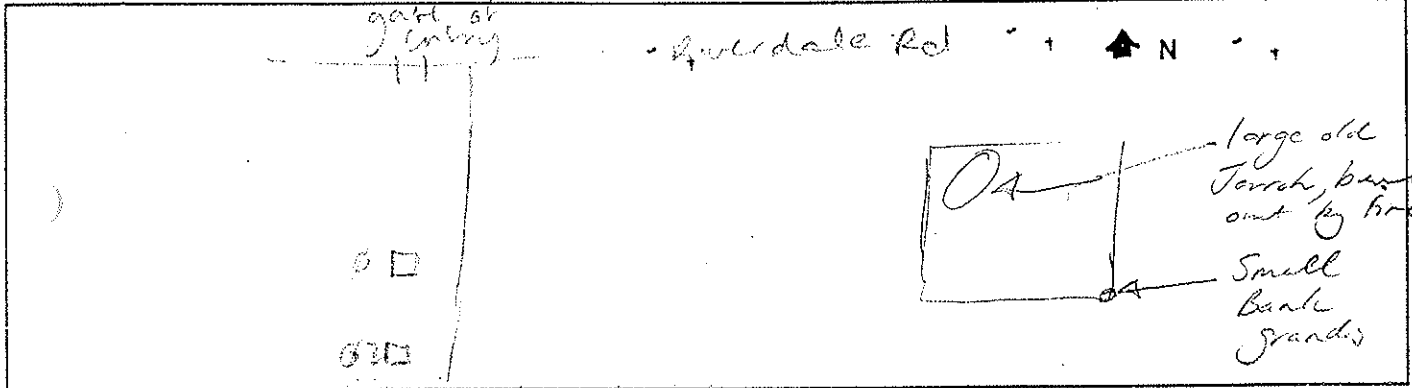
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA WILLOW'S PROPERTY SITE NUMBER CH1002  
 DATE TRIP 14-12-95 RECORDERS RTV APT  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 BOTANIST A

From 'Bushiana Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 24 Nedlands WA 6008.

1. LOCATION of the QUADRAT

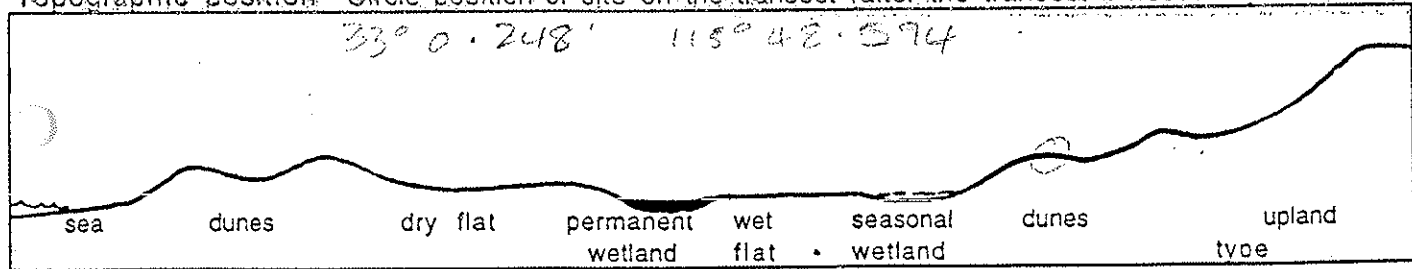
Mud Map Draw a sketch of the location of the site below.



Road Location \_\_\_\_\_  
 Geographic Location Latitude 33° 0' 24.8" S Longitude 115° 42' 57" E Altitude 42  
 Reference Map \_\_\_\_\_

Photograph \_\_\_\_\_ Photographer's Name \_\_\_\_\_ NCT Photo No. 15

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	type						<u>sand</u>	Colour	<u>brown</u>				
Exposed rock	type							% surface					
Sub-surface Soil	type						<u>sand</u>	Colour	<u>white</u>				
Rock	type							depth to rock					
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring					
Litter	Depth						<u>30-70</u> % cover	Bare Ground	<u>200</u> % cover				
	Depth						<u>up to 3</u> cm						
















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

3. VEGETATION STRUCTURE AND COVER

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

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 30m	15 - 30m	5 - 15m	over 9m	under 9m
LIFE FORM			Woodland 	under 5m Open low Woodland A 		
					30m	10m
COVER CLASS (%)			10-30	2-10		
DOMINANT SPECIES			Euc. mory	Banksia		
				Banksia		
		SHRUBS			SHRUBS	
		over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM				Low scrubs 	Low heath 	
						2m 1m
COVER CLASS (%)				10-30	30-70	
DOMINANT SPECIES				Mel. thym.	Stirlingia	
				Acacia	Hibb	
				Mac. redhi		
		GRASSES		HERBS	SEDGES	
					over 0.5m	under 0.5m
LIFE FORM						Very open low Sedges 1m 
COVER CLASS (%)			< 2%			2-10%
DOMINANT SPECIES						Lyg. barb

4. VEGETATION CONDITION

1	'PRISTINE'	COMMENTS
2	EXCELLENT	
3	VERY GOOD	
4	GOOD	
5	DEGRADED	

No weeds observed at all. Alongside new track with no weeds alongside. Seedlings of a variety of species in the site. Fire has scarred Jarrah.



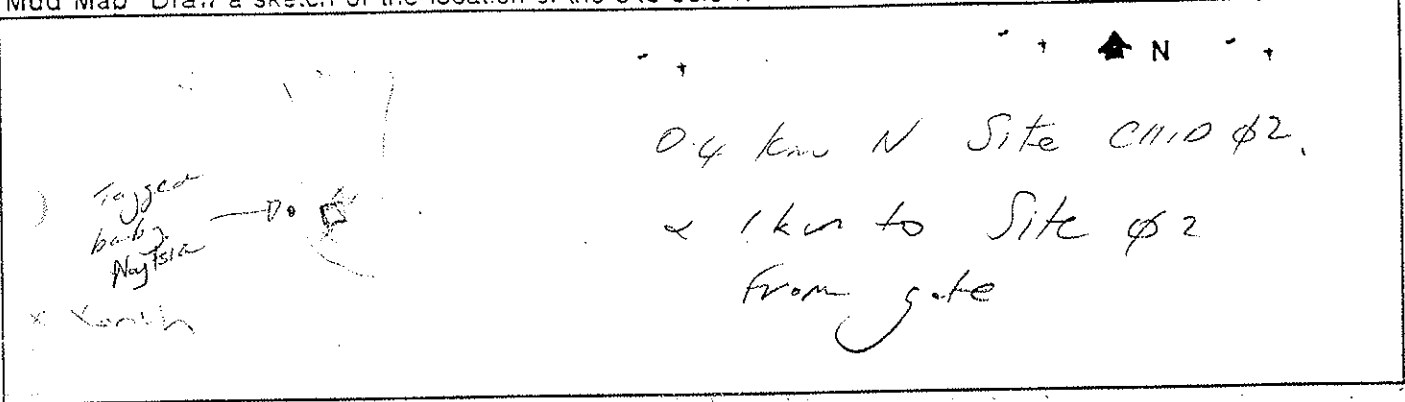
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA CHIDLOW'S PROPERTIES SITE NUMBER CH10 023  
 DATE TRIP 14-12-95 RECORDERS RJK NG  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 BOTANIST \_\_\_\_\_

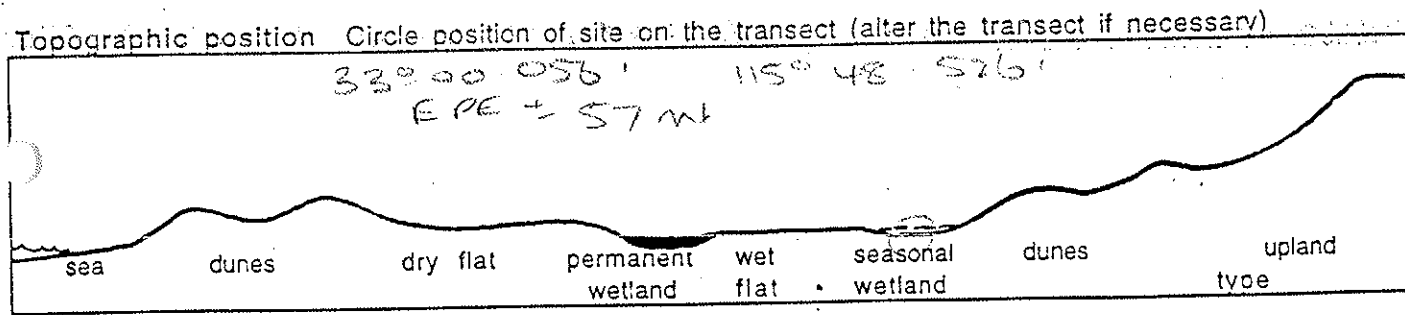
From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 4 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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



Road Location \_\_\_\_\_  
 Geographic Location Latitude \_\_\_\_\_ S Longitude \_\_\_\_\_ E Altitude \_\_\_\_\_  
 Reference Map \_\_\_\_\_  
 Photograph \_\_\_\_\_ Photographer's Name \_\_\_\_\_ Photo No \_\_\_\_\_



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>brown</u>
Exposed rock	type _____	% surface	_____
Sub-surface Soil	<u>Sand</u>	Colour	<u>dk brown</u>
Rock	type _____	depth to rock	_____
Drainage	well mod <u>poor</u> depth water	cm	Wet all year <u>winter/spring</u>
Litter	<u>30-70</u> % cover	Bare Ground	<u>zero</u> % cover
	Depth <u>21</u> cm		















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

3. VEGETATION STRUCTURE AND COVER

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

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 30m	15 - 30m	5 - 15m under 5m ✓	over 3m	under 3m
LIFE FORM						
COVER CLASS (%)				Scattered		
DOMINANT SPECIES				Met. prae		
		SHRUBS			SHRUBS	
		over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					Low Heath C. 	Dwarf Scrub 
COVER CLASS (%)				2-10	30-70%	10-30%
DOMINANT SPECIES				Xanth. prae	Per. Petro Spongio caule	Hyp. angust
		GRASSES	HERBS	SEDGES	SEDGES	
					over 0.5m	under 0.5m
LIFE FORM					Tall Sedges	Low Sedges 
COVER CLASS (%)					30-70%	30-70%
DOMINANT SPECIES					Evandra pauci	Hyp. exserta

4. VEGETATION CONDITION

1	'PRISTINE'	<p>COMMENTS</p> <p>No obvious signs disturb, adj areas burnt ~ 12 m/20 previously.</p>
2	EXCELLENT	
3	VERY GOOD	
4	GOOD	
5	DEGRADED	



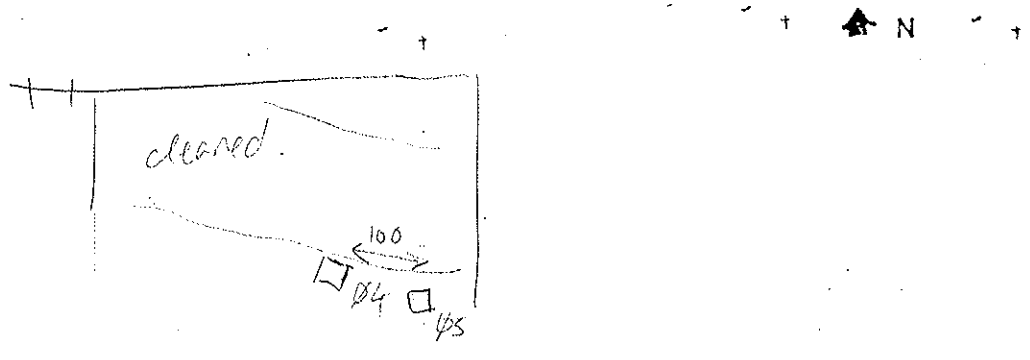
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA CHIDLON'S PROPERTIES SITE NUMBER CH1074  
 DATE TRIP 14-12-95 RECORDERS NCT, BJK  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 BOTANIST \_\_\_\_\_

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 24 Nedlands WA 6008.

LOCATION of the QUADRAT

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



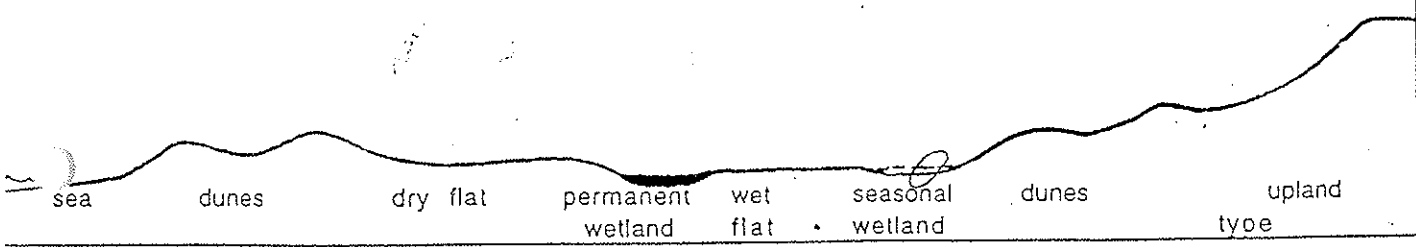
Road Location Riverdale Rd

Geographic Location Latitude 32° 59' 939 S Longitude 115° 48' 937 E Altitude \_\_\_\_\_

Reference Map EPE ± 28 Mt.

Photograph \_\_\_\_\_ Photographer's Name NCT Photo No 19

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 peat Colour black  
 Exposed rock \_\_\_\_\_ type \_\_\_\_\_ % surface \_\_\_\_\_

Sub-surface Soil \_\_\_\_\_ Colour \_\_\_\_\_  
 Rock \_\_\_\_\_ type \_\_\_\_\_ depth to rock \_\_\_\_\_

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

Litter \_\_\_\_\_ 30-70 % cover \_\_\_\_\_  
 Depth 2 cm Bare Ground zero % cover \_\_\_\_\_



















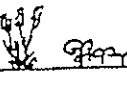
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the 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 30m	15-30m	5-15m under 5m	over 8m	under 8m	
		 Low forest A			30m  10m
COVER CLASS (%)		30-70			
DOMINANT SPECIES		Med grass Med rhaph			
SHRUBS			SHRUBS		
over 2m	2m-1.5m	1.5-1m	1-0.5m	under 0.5m	
 					2m  1m
COVER CLASS (%)					
DOMINANT SPECIES					
GRASSES		HERBS	SEDGES over 0.5m	under 0.5m	
 			 Dense tall Sedges 	 	1m
COVER CLASS (%)			70+		
DOMINANT SPECIES			Lepid long Rauv eric		

4. VEGETATION CONDITION

1	'PRISTINE'		COMMENTS
2	EXCELLENT	✓	
3	VERY GOOD		
4	GOOD		
5	DEGRADED		



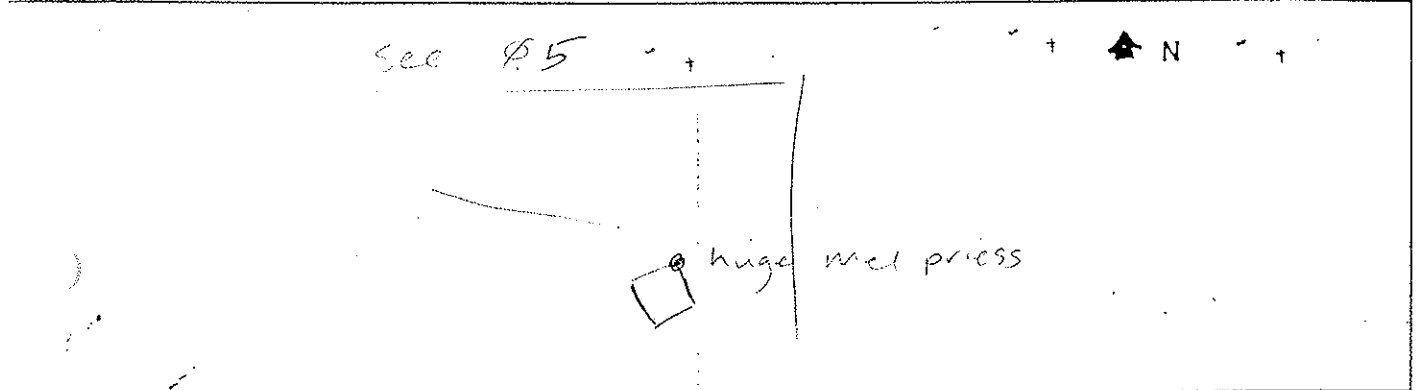
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA CHLOWS PROPERTY SITE NUMBER CH10 05  
 DATE TRIP 14/12/95 RECORDERS BJK NLT  
 DATE TRIP 15/12/95 RECORDERS \_\_\_\_\_  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 BOTANIST \_\_\_\_\_

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 2 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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

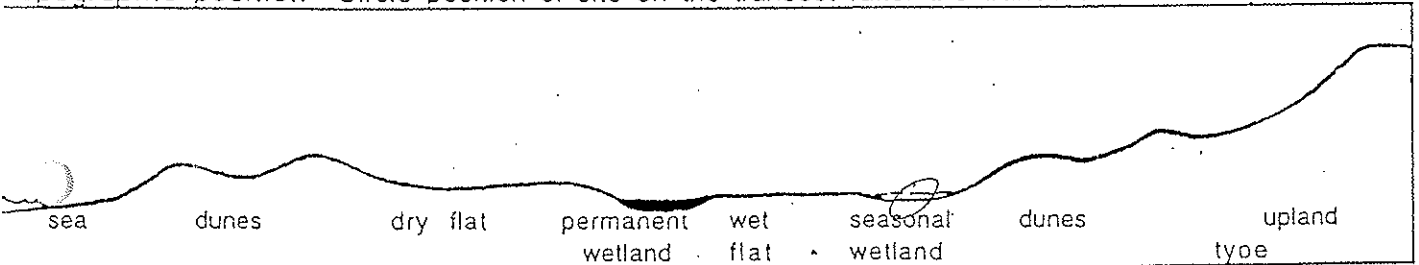


Road Location Riverdale Rd

Geographic Location Latitude 32° 59.974 S Longitude 115° 49.003 E Altitude  
 Reference Map EPE ± 40 mt

Photograph Photographer's Name NLT Photo No 20

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 peat Colour black  
 Exposed rock type % surface

Sub-surface Soil Colour  
 Rock type depth to rock

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

Litter 22 % cover  
 Depth cm Bare Ground zero %cover


















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

From 'Bushtand Plant Survey' written by B. Keighery (1994) and published by the 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 30m	15-30m	5-15m	over 8m	under 8m
LIFE FORM			Forest 	 		
COVER CLASS (%)			30-70			
DOMINANT SPECIES			Mel priest			
		SHRUBS			SHRUBS	
		over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM		 		Dense Heath B 		
COVER CLASS (%)				70+		
DOMINANT SPECIES				Ashes interm.		
		GRASSES		HERBS	SEDGES	over 0.5m
		over 0.5m		under 0.5m	under 0.5m	
LIFE FORM		Very open Grasses 		Very open Herbs 	 	Low sedges 
COVER CLASS (%)		2-10		2-10	30-70	
DOMINANT SPECIES		Amphi lag		Xanth pussia	Restio steno	

4. VEGETATION CONDITION

1	PRISTINE		COMMENTS Marric been burnt out been a fire about 1 year ago no weeds
2	EXCELLENT	✓	
3	VERY GOOD		
4	GOOD		
5	DEGRADED		



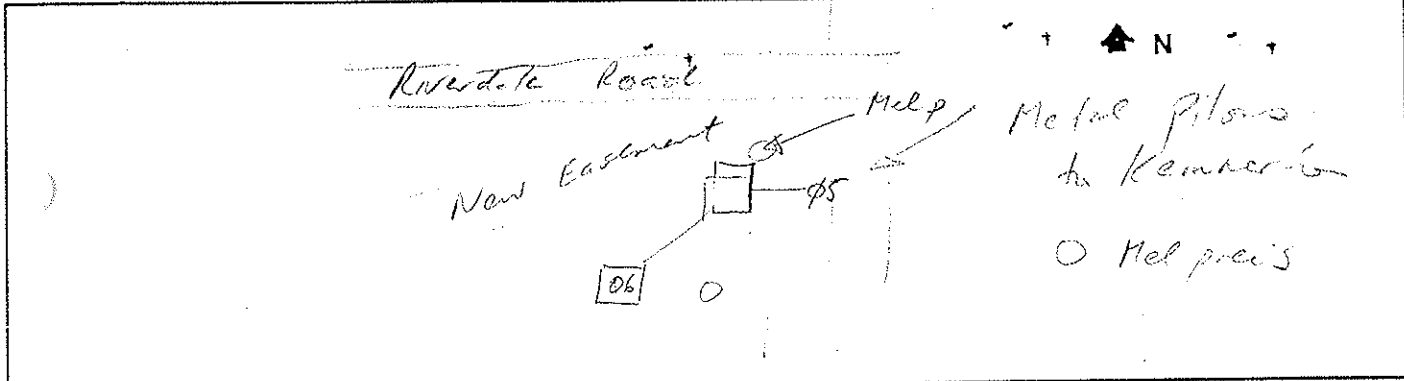
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA CHIDLOWS SITE NUMBER CHID 06  
 DATE TRIP 15/12/95 RECORDERS BJK NT  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 DATE TRIP \_\_\_\_\_ RECORDERS \_\_\_\_\_  
 BOTANIST \_\_\_\_\_

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 24 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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



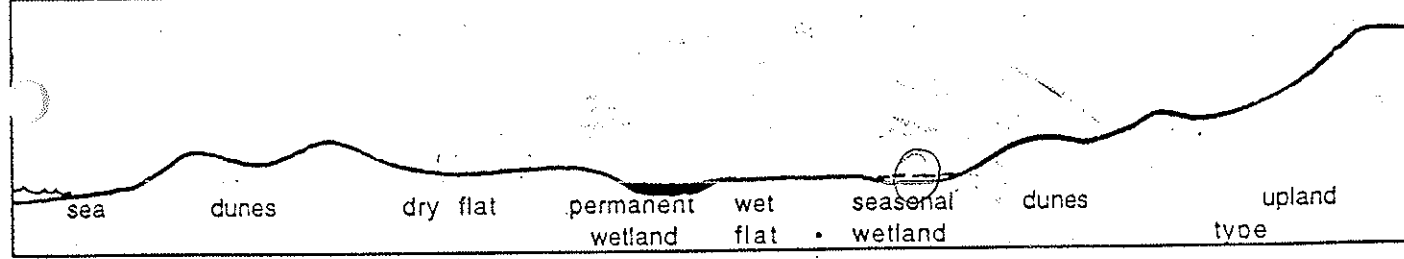
Road Location Riverdale Road

Geographic Location Latitude 32° 59.959' S Longitude 115° 48.630' E Altitude \_\_\_\_\_

Reference Map \_\_\_\_\_

Photograph Photographer's Name BJK 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 Peat Colour black  
 Exposed rock type NA % surface \_\_\_\_\_

Sub-surface Soil Peat Colour black  
 Rock type \_\_\_\_\_ depth to rock \_\_\_\_\_

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

Litter 50 % cover \_\_\_\_\_  
 Depth \_\_\_\_\_ cm Bare Ground 2-10% %cover \_\_\_\_\_

Litter from fire deaths














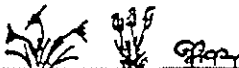
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of W.A. 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.

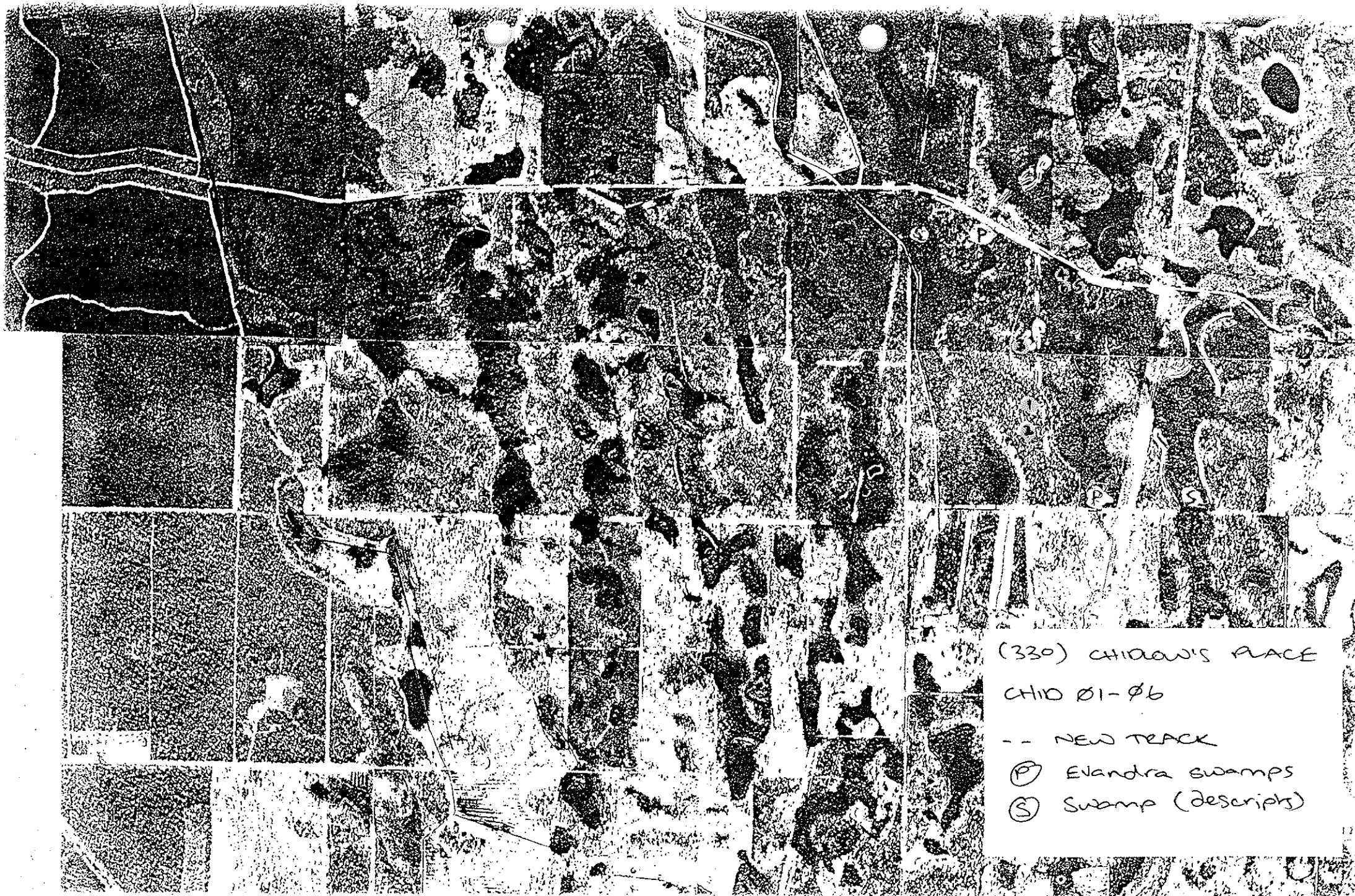
Cover Class      2-10%      10-30%      30 - 70%      over 70%

		TREES			MALLEES	
		over 30m	15 - 30m	5 - 15m under 5m	over 3m	under 3m
LIFE FORM						
COVER CLASS (%)						
DOMINANT SPECIES						
		SHRUBS			SHRUBS	
		over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM			Open Low Scrub A 	Heath B 		
COVER CLASS (%)			2-10%	30-70%		
DOMINANT SPECIES			Mel rhaps	Mel lent Mel kt Mel inc		
		GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM						
COVER CLASS (%)			? 30-70%	2-10%		10-30%
DOMINANT SPECIES			? Iso. prok (Decid. partly decomposed)	Baum. affil.		Lepid long

4. VEGETATION CONDITION

1	'PRISTINE'		COMMENTS Fire 2 year ago, all regrowth
2	EXCELLENT	<input checked="" type="checkbox"/>	
3	VERY GOOD		
4	GOOD		
5	DEGRADED		





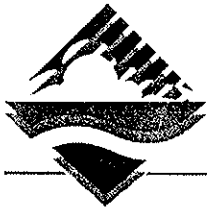
(330) CHIDLOW'S PLACE

CHID 01-06

-- NEW TRACK

Ⓟ EVANDRA SWAMPS

Ⓢ SWAMP (descript)



Mr JP Chidlow  
PO Box 11  
HARVEY WA 6220

**Head Office:**  
8th Floor, Westralia Square  
141 St Georges Terrace  
Perth, Western Australia 6000  
Tel (09) 222 7000 Fax (09) 322 1598

**Waste Management Division:**  
Ground Floor, 32 St Georges Terrace  
Perth, Western Australia 6000  
Tel (09) 222 0422 Fax (09) 222 0455  
or PO Box Y3030, East, St Georges Terrace  
Perth, Western Australia 6832

**Regional Offices:**  
Bunbury • Karratha • Kalgoorlie • Kwinana

Your Ref

Our Ref

Enquiries

67/91

N Thorning

Dear Mr Chidlow

### SYSTEM SIX UPDATE PROGRAMME - FLORA SURVEY INFORMATION

Thank you for providing permission for our botanical team to survey the bushland on your property. As arranged between yourself and Miss Natalie Thorning of this Department, the bushland on Location 3071, Riverdale Rd, Cookernup was visited on 15 December 1995.

The botanical survey provides us with information on the natural plant communities found in the area, and their condition. This information is needed to assist the Department of Environmental Protection in its programme to update the conservation recommendations for System 6 and the coastal plain portion of System 1. The main objective of the programme is to ensure that the proposed conservation estate is representative of the ecological communities extant in the region.

As indicated in my earlier letter seeking approval to survey your vegetation, the fact that we visited and surveyed the site does not indicate that it will necessarily be included in the updated System Six Recommendations.

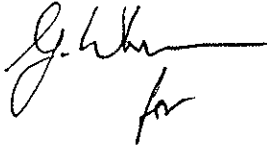
Six survey sites were located on the property and metal fence droppers were left in each corner of the 10 metres by 10 metres square survey sites. We may wish to revisit these sites at a later date, if so, we will contact you prior to our visit. A general description of the vegetation and an assessment of its condition was also completed.

The information collected during the visits will be used to assess the relative conservation values of the bushland areas. The final selections for inclusion in the updated System Six Recommendations will be the best possible examples of bushland containing plant community types that are either unrepresented or poorly represented in the current and proposed conservation system.

The location of the survey sites is enclosed. If you are interested any other information we have collected or additional information on the System Six Update Programme please don't hesitate to contact Miss Natalie Thorning (222 7051) or Mr Kevin McAlpine (222 7055).

Once again, thank you very much for your support for this programme.

Yours sincerely

A handwritten signature in black ink, appearing to read 'C. Sanders', with a horizontal line extending to the right.

Colin Sanders  
DIRECTOR  
POLICY AND STRATEGIC STUDIES

21 December 1995



Cinnamon Pty Ltd  
C/- KM & E Sears  
5 Ash Avenue  
HARVEY WA 6220

**Head Office:**  
8th Floor, Westralia Square  
141 St Georges Terrace  
Perth, Western Australia 6000  
Tel (09) 222 7000 Fax (09) 322 1598

**Waste Management Division:**  
Ground Floor, 32 St Georges Terrace  
Perth, Western Australia 6000  
Tel (09) 222 0422 Fax (09) 222 0455  
or PO Box Y3030, East, St Georges Terrace  
Perth, Western Australia 6832

**Regional Offices:**  
Bunbury • Karratha • Kalgoorlie • Kwinana

Your Ref

Our Ref

Enquiries

67/91

N Thorning

Dear Sir/Madam

### SYSTEM SIX UPDATE PROGRAMME - FLORA SURVEY INFORMATION

Having been unable to contact you by telephone, I am writing to outline the details of the above survey and to request for permission to access Location 3070 Riverdale Road, Cookernup, which I believe is in your ownership.

As you may be aware, the Department of Environmental Protection is coordinating a programme to update the conservation recommendations for System 6 and the coastal plain portion of System 1. The main objective of the programme is to ensure that the proposed conservation estate is representative of the ecological communities remaining in the region.

As part of this programme the Department has advertised for the public to submit areas of bushland that they consider to be of regional significance. Our botanical team is surveying these submitted areas as well as those it considers may be important based on other factors such as their location and soil type etc. The botanical survey provides us with information on the natural plant communities found in the area, and their condition. Please note that we need to visit a great many sites to develop a detailed understanding of the distribution of the various plant communities. The fact that we are seeking to visit and survey the area does not indicate that it will necessarily be included in the updated System Six Recommendations.

The update programme has employed the botanical survey methodology used in Gibson et al. (1994), 'A Floristic Survey of the Southern Swan Coastal Plain', to provide the main information base upon which to review the adequacy of the existing System recommendations and to assess other bushland areas.

Survey sites are located after visiting the bushland areas. Each survey site is 10 metres by 10 metres square and, if you are agreeable, is marked by four steel posts which remain in place so that the site may be resampled at least once. Sites on CALM lands will remain as monitoring sites and you may wish to retain the sites on your lands for the same purpose. Our sampling is non-destructive and small samples of plants are only collected when we are unsure of the plants identity.

The information collected during the visits will be used to assess the relative conservation values of the bushland areas. The final selections for inclusion in the updated System Six Recommendations will be the best possible examples of bushland containing plant community types that are either unrepresented or poorly represented in the current and proposed conservation system.

It would be appreciated if you could reply as soon as possible since our field programme is concentrated around the spring flowering season. For further information please don't hesitate to contact Miss Natalie Thorning (222 7051) or Mr Kevin McAlpine (222 7055).

Thank you for your support.

Yours sincerely



Colin Sanders  
DIRECTOR  
POLICY AND STRATEGIC STUDIES

5 December 1995



Mr AJ Jackson  
28 South West Highway  
WAROONA WA 6215

**Head Office:**  
8th Floor, Westralia Square  
141 St Georges Terrace  
Perth, Western Australia 6000  
Tel (09) 222 7000 Fax (09) 322 1598

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**Regional Offices:**  
Bunbury • Karratha • Kalgoorlie • Kwinana

Your Ref  
Our Ref  
Enquiries

67/91  
N Thorning

Dear Mr Jackson

### SYSTEM SIX UPDATE PROGRAMME - FLORA SURVEY INFORMATION

Having been unable to contact you by telephone, I am writing to outline the details of the above survey and to confirm our request for permission to access Lot 1 Riverdale Rd, Cookernup, which I believe is in your ownership.

As you may be aware, the Department of Environmental Protection is coordinating a programme to update the conservation recommendations for System 6 and the coastal plain portion of System 1. The main objective of the programme is to ensure that the proposed conservation estate is representative of the ecological communities remaining in the region.

As part of this programme the Department has advertised for the public to submit areas of bushland that they consider to be of regional significance. Our botanical team is surveying these submitted areas as well as those it considers may be important based on other factors such as their location and soil type etc. The botanical survey provides us with information on the natural plant communities found in the area, and their condition. Please note that we need to visit a great many sites to develop a detailed understanding of the distribution of the various plant communities. The fact that we are seeking to visit and survey the area does not indicate that it will necessarily be included in the updated System Six Recommendations.

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Thank you for your support.

Yours sincerely

A handwritten signature in black ink, appearing to be 'CS', written in a cursive style.

Colin Sanders  
DIRECTOR  
POLICY AND STRATEGIC STUDIES

5 December 1995

Chidlow (330)



FACSIMILE

Western Power

Western Power Corporation  
363 Wellington Street  
Perth Western Australia 6000  
GPO Box L921 Perth 6001

Branch: ENVIRONMENT  
Facsimile No: 3264600  
Telephone No: 3264902

TO: NATALIE THORNTON

FACSIMILE NO: 3221598 CITY/COUNTRY: WA

FROM: ADRIAN CHEAWIDDEN

DATE: 7 DECEMBER 1995 Number of pages: 3  
(including this page)

For any queries regarding the transmission of this facsimile please telephone:  
Please reply on facsimile number:

The information contained in this facsimile is confidential, and is intended only for the use of the addressee. If you are not the intended recipient, any dissemination, copying or use of the information is strictly prohibited. If you have received this communication in error, please immediately telephone us (we will accept reverse charges), and return the original facsimile to the address above.

Subject: DAM letter report.

Natalie,

Please find attached the Dames and Moore letter report of July 10 1986 on "Sensitive Flora and selection of the Proposed Harvey Substation site" (Job No. 08038-070-07).  
Please do not hesitate to contact us if you have any queries or if further information is required.

Regards.

**Dames & Moore**



26 Lyall Street, South Perth  
Western Australia, 6151  
Telephone 367 8045 Telex 92913

10 July 1986

Acting Manager  
Systems Development  
State Energy Commission of Western Australia  
GPO Box L921  
PERTH WA 6001

Attention: Environmental Investigations Engineer

Dear Sir,

**SENSITIVE FLORA AND SELECTION OF THE  
PROPOSED HARVEY SUBSTATION SITE**

At the time of preparation of the 1985 Public Environmental Report (PER) for the Proposed Transmission Line Interconnections for Proposed Aluminium Plant (Kemerton) the State Energy Commission's preferred choice of sites for the proposed Harvey substation was south of Riverdale Road in the north-eastern corner of Location 3071. The report on the 1985 spring flora survey of the site noted that it is an outstanding location for certain species that are rare or geographically restricted. In particular, the north-eastern corner of Location 3071 has what are probably the largest remaining populations of Evandra pauciflora and Acacia flagelliformis and some of the best known stands of Acacia semitrullata and Epiblema grandiflora (Babe-in-the-cradle orchid). It is also the northernmost known locality for Xyris lacerata and Acacia flagelliformis and has, for the location, exceptionally large stands of Diuris emarginata orchid and Verticordia nitens feather-flower.

The State Energy Commission has now selected an alternative site for the substation which is environmentally less sensitive. The site is in a low-lying area west of the previously preferred site and is in the north-central part of Local 3071.

I walked through the site looking for sensitive flora on two locations, on 18 June 1986 with staff of the State Energy Commission and on 29 June 1986 by myself. During these searches of the site we found a few scattered plants of Evandra pauciflora and Acacia semitrullata but none of the other species mentioned above. There were, however, stands of Acacia flagelliformis immediately north of the site which are good although

State Energy Commission of Western Australia  
10 July 1986  
Page 2

less extensive and less dense than the ones in the north-eastern corner of Location 3071. I have outlined the approximate boundary of the north-central A. flagelliformis stand on the aerial photo enlargement, but the boundary needs confirmation by field work undertaken when the plants are in flower. The photograph enclosed with this letter should enable anyone to recognise Acacia flagelliformis when it is in flower. I shall also forward to you at a later date photographs of fruiting plants, as well as photographs of the other Acacia species and the Evandra and herbarium specimens.

Acacia semitrullata was in flower at the time of the recent surveys, but A. flagelliformis was, with rare exceptions, only in bud. Although more reliable estimates of the density and extent of the A. flagelliformis stands must await surveys undertaken when they are fully in flower, the June surveys do indicate with a reasonably high level of probability that if any A. flagelliformis plants do occur in the site (none were found there in June) they are few and near the periphery of the site.

Development of the north-central site for a substation should have minimal impact on sensitive flora, particularly if access to the site is chosen to avoid the stands of Acacia flagelliformis bordering the site. Impact caused by the development can be contained by fencing the site before construction begins and closely supervising the use of earth-moving equipment.

(tic) Furthermore, development of the site for the substation would have positive benefits for stands of Acacia flagelliformis, A. semitrullata and Euandra pauciflora occurring near the site if they are in the area purchased by the Commission and are protected from clearing.

I trust that this information is sufficient for your present requirements. If you have any queries about it, please do not hesitate to contact me at either the Dames & Moore office or at home (458-9738).

Yours faithfully  
DAMES & MOORE

A S Weston  
Senior Botanist

ASW/dal/08038-070-71/DK/78

SHIRE OF HARVEY  
REPORT FOR E.P.A.

PROPERTY..	LOT...	LOC..	FULL, PRDP. ADD.....	OWNERS NAME.....	OWNERS ADDRESS.....
101		4607	NICHOLSON ROAD, HARVEY, 6220	A R HALL	PO BOX 110, HARVEY - 6220
155	2790		MCNEIL ROAD, COOKERNUP, 6219	N MCNEIL	PO BOX 1, WARDONA 6215
48	PT	3071	RIVERDALE ROAD, COOKERNUP, 6220	J P CHIDLOW	PO BOX 11, HARVEY 6220 - 097 29 1128
6586		1021	RICHARDSON ROAD, COOKERNUP, 6220	S HALL J M HARVEY	P O BOX 1261, BUNBURY 6230 097 216512
6594	1		RIVERDALE ROAD, COOKERNUP, 6219	A J JACKSON	28 SOUTH WEST HIGHWAY, WARDONA 6215
6780		3070	RIVERDALE ROAD, COOKERNUP, 6220	CINNAMON PTY LTD	C/- KM & E SEARS, 5 ASH AVENUE - 097 29 1295 HARVEY 6220

END OF LIST.

Attn: TODD SIMMS

from: Cindy Shire of Harvey.

1 28 Nov 1995

The edges line under

Ast. off (ascil) 77% 15-2m over  
33° 00' 41.4"  $\pm$  31m  
115° 49' 12.4"

Wild Animals

Brush Tail Wallaby  
Koo3

Frogs (Stripes)

Cobras

Acacia extends in  
drier edges & into  
Mel pice on edge Wallenda

SWAMP #1 32° 59' 788'  $\pm$  40m  
115° 48' 190'

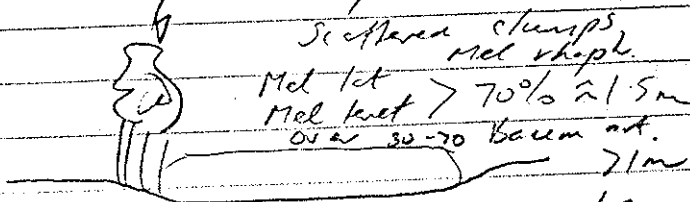
CHICKENS

15/12/25

SEC SWAMP (Stop 2)

32° 59' 894'  $\pm$  47m  
115° 48' 864'

SWAMP 3 Adj Steel (E) Pann  
line  
Euc radis / Mel pice



33° 00' 210'  $\pm$  31m  
115° 49' 014'

SWAMP 4

Southern end of SWAMP 3  
on boundary with  
taller Mel shrub  
H<sub>2</sub>O in centre  
Epi. grand (purple) in

CHADLOWS

15/12/95

Divided  $\approx$  300 acre blocks  
with 20m fine breaks,  
fenced power line to graze  
cattle, winter/Spring  
grazing in bushland  
Fine breaks plowed, but  
little weed invasion  
Weeds in isolated patches  
Patch with weeds NW corner.

330

N. McNeil.

~~1) McNeil N. & R.E.~~

left message

63 Panorama Drive Prestn Bch  
(097) 39 1068

2) McNeil N.W. & Y.F.

5 Willow Drive Bubbly  
(097) 21 6340

J.P. Chidlow

Chidlow J.P. & S.I. Quindlaning Rd  
Harvey (097) 29 1128.

S. Hall

loc 1021 Richardson Rd  
Cookernup

1) ~~Hall S. 17 Paisley Bunbury~~  
~~(097) 21 8312~~

2) ~~Hall S. 2 Alexander Bandy~~  
~~(097) 91 3236~~

Harvey. S.C.

097 292 053 Fax

Cindy.

(097) 29 1009 Tel:

A.R. Hall.

3 possibilities

1) ~~A.R. Hall Avalon Pde Flcn (09) 537 4192~~

2) A.R. Hall 68 Ensign Mrgn (098) 81 1124

3) A.R. Hall & SGL. Powell Rd Wokakup  
(097) 29 1677

4) A. & S.G. 19 Teasdale Rd YMP

(097) 33 4047

3) Hall S. K. 2 Lewis Pl Bunbury  
(097) 45 4738

4) Hall S. M. 36b Moore Bunbury  
(097) 215601

5) Hall S. & M. C. Shenton St  
Bunbury (097) 21 6512.

A. J. Jackson

Jackson. A. J. & P. A. Gibbons Rd  
Coolp (09) 530 3374. *left message a sw mac*

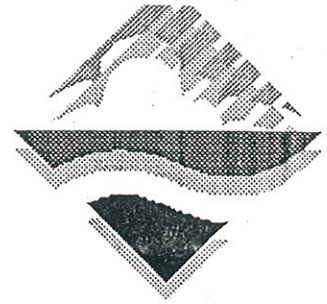
Jackson. A. J. & M. M. 74 Hare  
Albany (098) 41 1385.

Manan Pty Ltd. / K. M. Sears.

Sears. 5 Ash Ave Honey  
(097) 29 1295

# Facsimile Message

Department of Environmental Protection



ATTENTION: Cindy

FROM: Todd SIMMS

TELEPHONE: (09) 222 7184 No. of sheets following 1

DATE: 27/11/95

---

## MESSAGE

Cindy

Could you please provide;

1) Names of the owners, &

2) The address of the owners within the land specified

Thank you

Westralia Square, 141 St Georges Tce Perth, WA 6000. Fax: (09) 321 5184 Tel: (09) 222 7000



from turn off  
16 km W  
under  
incl 3 or 4  
on property  
big steel ones  
main gate under  
big pylons,

Tara Millington 381 6566  
015 ~~01~~ 778886

Friday 15th. 9.30  
SW Hwy thru

Cinnamon Pty Ltd c/o km + Sears.  
097 29 12 95 lines  
had 2000 acres + firebreak.  
4-5 power lines  
gas pipeline  
might graze firebreak.  
rabbits  
graze corridors

2000 trees  
corridors  
Western Power  
SAMES  
Names & report

Moore  
SD233  
FCB 1988  
Proposed Harvey  
Transmission Line  
670 acre

kwine  
Moratorium on clearing  
Peel Harvey boundaries  
statutory catchment

S Hall.

9-30 4/12.

not Monday  
Wants to preserve  
what's left  
b/w Lake  
Clifton &  
Preston

wants to bulldoze.

300 acre of bush  
must  
have 20m fire  
break.

130 acre.

want to subdivide 2 rural lifestyle

### Exploration

33 km myalup turn off.

WA sands  
Cable sands

talk to other owner.

will ring back.

afraid of consequences

# Record of Telephone Call

Call from NATALIE THORNING	Call to	Folio No.
Dept DEP	Dept	File No.
Subject SYSTEM UPDATE - FLORA SURVEY	Date / /	Time

Details

Lot 2790 McNeil Road, Coorup 6219

N McNeil

PO Box 1, Waroona 6215

ph: 097 39 1068 (Preston Beach)

left message on ans. mach.

Action taken/Recommendation(s) (where applicable)

Approval (if required)



Soil Conservation Commissioner

administers :-

Soil & Land Cons Act

- set up to help prevent degra.  
of land.

connected to Ag Dept

over 1 ha — soil cons. comm.

over 100 ha - EPA

or likely to be envt. signif - EPA.

Greg Beeston.

CHIDLOWS SWAMP 1  
on Western boundary road  
32° 59.785' 115° 48.190'

*Boronia crenulata* var *gracilis*

*Acacia semitrullata*

*Comesperma flavum*

*Astartea* aff. *fascicularis*

*Stylidium calcareata*

*Drosera nitidula*

*Stylid. brunonianum* ssp *minor.*

*Drosera peltata*

*Stylid gattetii*

*Stylid dictotomum*

# Record of Telephone Call

Call from NATALIE THORNING	Call to	Folio No.
Dept DEP	Dept	File No.
Subject SYSTEM 6 UPDATE - FLORA SURVEY	Date 5 / 12 / 95	Time

Details

Lot 1, Riverdale Rd, Coorup 6219

AJ Jackson

28 South West Highway, Waroona 6215

ph: 097 331 810

spoke to mother, AJ Jackson works at Bunnings  
Parloop leaves 4 am home 430pm later.  
left my number for him to contact me.

spoke to father 12ish, will explain to son &  
get back to me.

sent letter 5/12

Action taken/Recommendation(s) (where applicable)

Approval (if required)



Department of Environmental Protection

Westralia Square, 8th Floor, 141 St Georges Terrace, Perth WA 6000

# Record of Telephone Call

Call from NATAUE THORNING	Call to MR S. HALL	Folio No.
Dept DEP	Dept	File No.
Subject SYSTEMS UPDATE - FLORA SURVEY	Date 4 / 12 / 95	Time 9.30 am

## Details

Location 1021 Richardson Rd, Cockburn 6220

S Hall + M Harvey

↓  
PO Box 1261, Bunbury 6230

097 216 512

- intends to subdivide into 2 rural lifestyle blocks + live on one with his family
- exploration licence application goes in process for 33 km from Myalup turn off. Cable Sands, 2 previously from WA Sands.
- wary of consequences of flora survey. doesn't want more restrictions on his land.
- will talk to other owner (M. Harvey) + get back to me this afternoon.

Action taken/Recommendation(s) (where applicable)

Approval (if required)



Department of Environmental Protection

Westralia Square, 8th Floor, 141 St Georges Terrace, Perth WA 6000

# Record of Telephone Call

Call from NATALE THORNING Dept DEP	Call to AR Hall & his son. Dept	Folio No.
Subject SYSTEM UPDATE - FLORA SURVEY	Date 5 / 12 / 95	Time 2.00 pm
Details Location 4607 Nicholson Rd, Harvey 6220  AR Hall  PO Box 110, Harvey 6220.  Happy for us to do survey work, sites OK. would like information - data sheets, site locations, flora lists to use sites to monitor fenced & unfenced sites. Are planning to fence all bush within 5 years. Will unlock gate on Chr Nicholson & Riverdale Rd SEC gate, could we lock on the way out.		
Action taken/Recommendation(s) (where applicable)		
Approval (if required)		



Department of Environmental Protection

Westralia Square, 8th Floor, 141 St Georges Terrace, Perth WA 6000

# Record of Telephone Call

Call from NATALIE THORNING	Call to	Folio No.
Dept DEP	Dept	File No.
Subject SYSTEMS UPDATE - FLORA SURVEY	Date / /	Time

Details

Location 3070 Riverdale Rd, Cockermup 6220

Cinema Pty Ltd

c/- Km + E Sears

5 Ash Avenue, Harvey 6220

ph: 097 29 1295

letter sent 6/12/95

Action taken/Recommendation(s) (where applicable)

Approval (if required)



# Record of Telephone Call

Call from NATALIE THORNING Dept DEP	Call to JP Chidlow Dept	Folio No.
		File No.

Subject SYSTEM UPDATE - FLORA SURVEY	Date 4 / 12 / 95	Time AM
---	---------------------	------------

Details

PT Location 3071 Riverdale Rd, Cockermup 6220  
670 acre

JP Chidlow  
PO Box 11, Harvey 6220  
097 291 128.

Would like a letter describing survey + then  
will ring + let know ok to do survey +  
make arrangements to pick up key.  
letter sent 4/12

4-5 power lines + 1 gas pipeline through the  
block.

Dames + Moore Report SD 233 Feb 1988  
Proposed Harvey Kwinana Transmission Line  
+ another march 1985. 621.315.1 DAM

keen for conservation of bushland  
next week any day except monday to pick  
up key.

chidlow rang 7/12 to give permission + arrange  
to meet at main gate under large pylons

Action taken/Recommendation(s) (where applicable)  
at 9.30 Fri 15 Dec.

Approval (if required)

