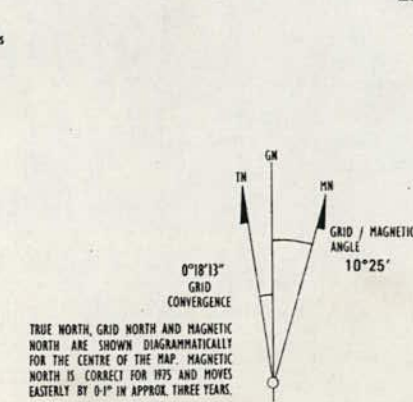


PRODUCTION: Compiled, drawn, printed and published by the Central Mapping Authority, of N.S.W.

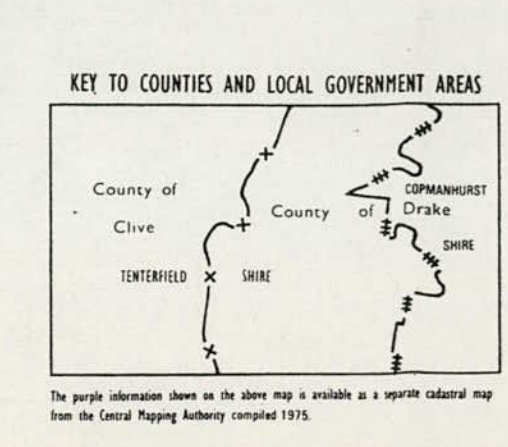
ACCURACY: Aerial Photography - 1973 Field revision - 1973 Printing - 1976 Reprinted - 1977 by D. West, Government Printer, Sydney. Conforms to National Mapping Council standards.

NOMENCLATURE: Place names, as defined by the Geographical Names Act, 1966 are approved names.



- Dense timber; Medium timber
- Scattered timber; Forest, coniferous or pine
- Orchard, plantation or vineyard
- Mangrove; Scrub
- Marsh or swamp; Land subject to inundation
- Small dam, waterhole or tank; Well or bore; Spring
- Intermittent watercourse with falls
- Dam or weir; Rapids in large river
- Indefinite intermittent watercourse
- Perennial watercourse with rapids
- Intermittent lake; Dry lake
- Irrigation canal and drains
- Indefinite perennial watercourse

- Breakwater
- Bathymetric contour approximate; Jetty and wharf
- Wreck exposed; Anchorage; Slipway
- Reef; Rock shelf
- Rock bare or awash; Lighthouse; Rocky shoreline
- Parish (Cadastral subdivision of the County)
- County boundary
- Parish boundary
- Shire boundary
- State forest; National Forest boundary
- State Park; National Park boundary
- Reserve boundary
- Closed Road; Portion and number



The purple information shown on the above map is available as a separate cadastral map from the Central Mapping Authority compiled 1975.







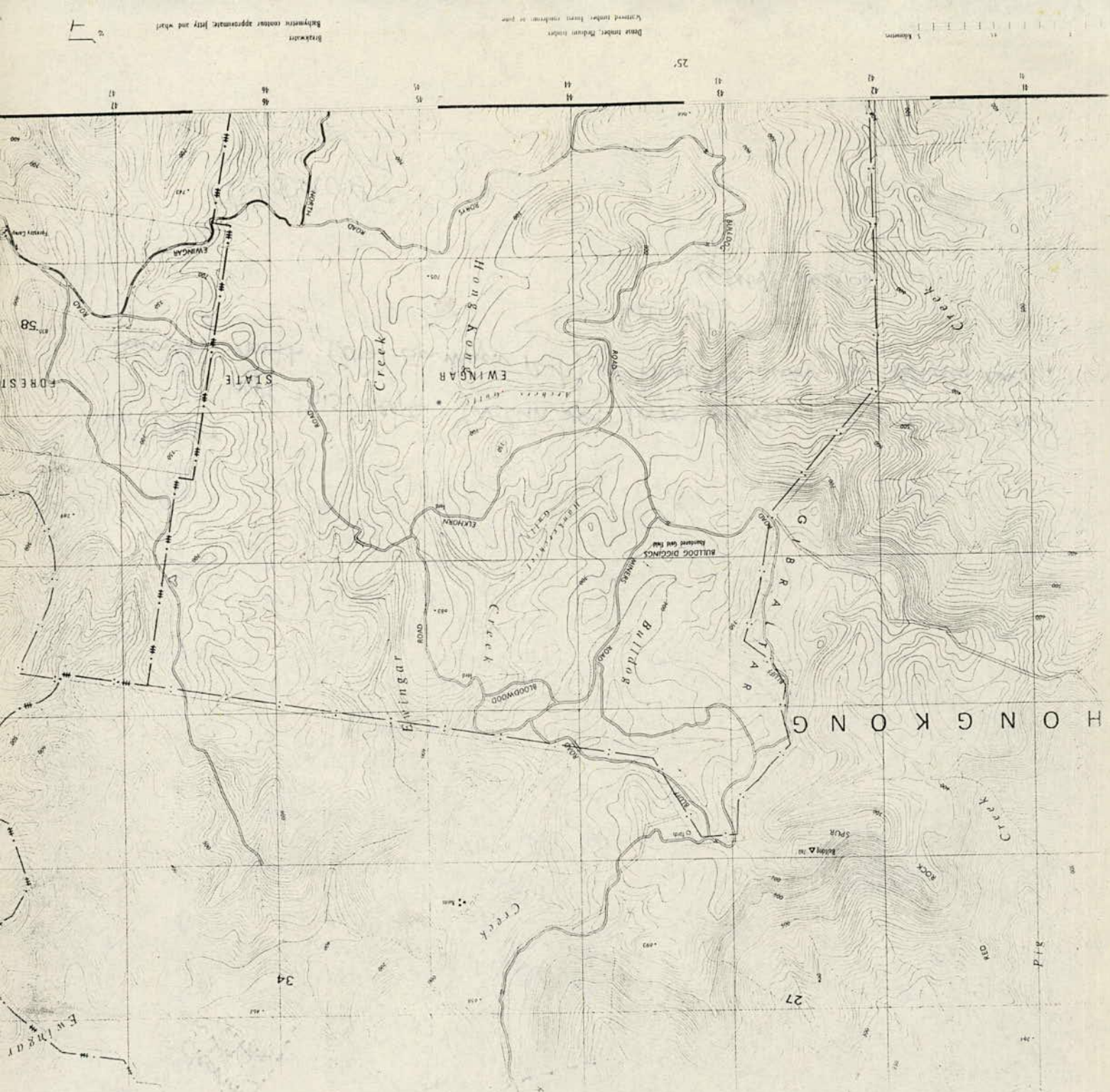


Hi Dave,  
 hope this helps. You can get there either along Bulldog Road  
 from the north (off Ewingar Rd) or from the south on Bulldog Road.

Regards  
 George A. Beyer

3 pages





- Map 1  
topo of  
T. Placingt  
NEFA.

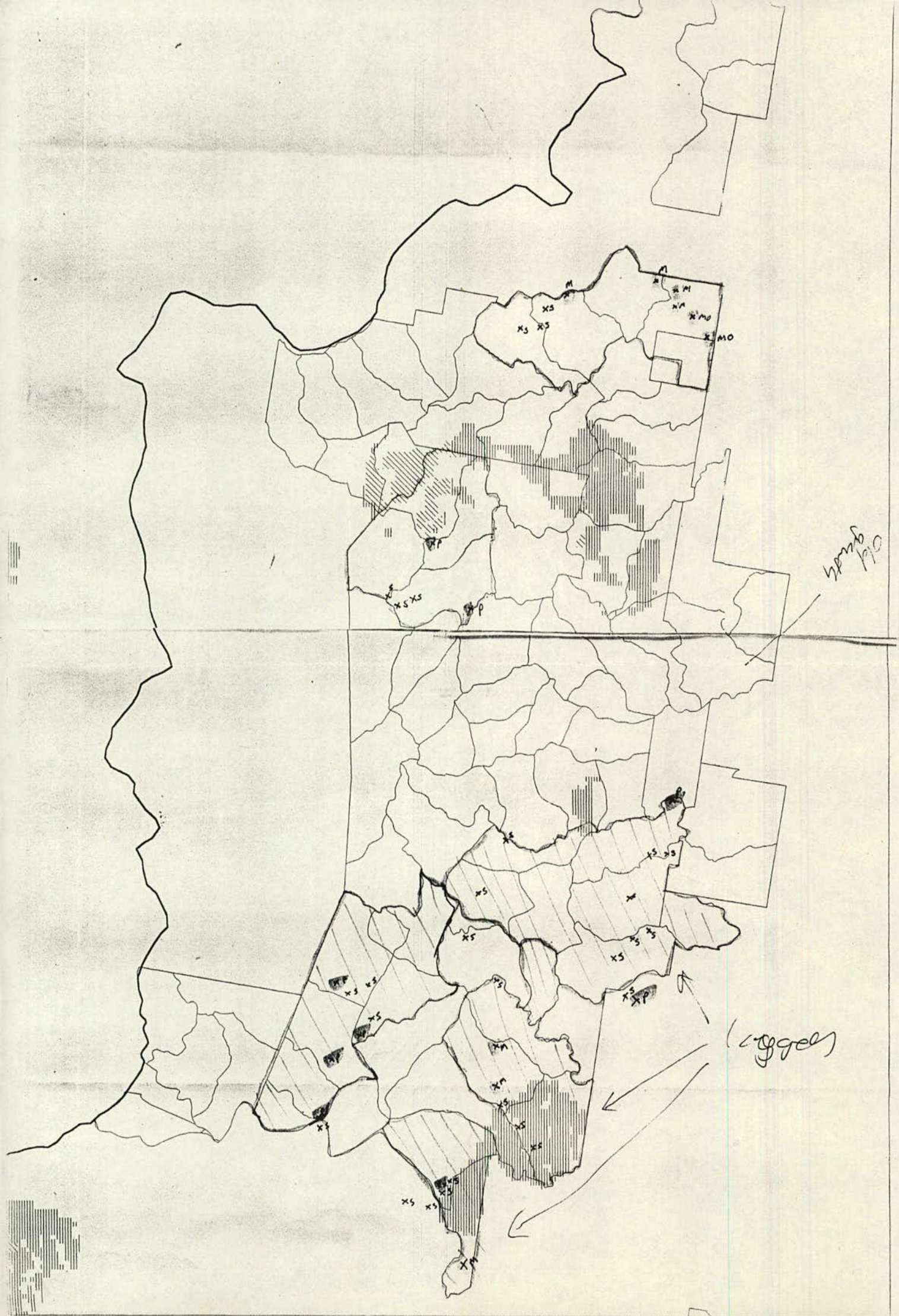
- Map 2  
topo. SF records

- Map 3  
GIS Map

- get big topographic map  
for exclusion areas - light.  
- print at BTR records from  
GIS.

- Map 4  
exclusion areas.



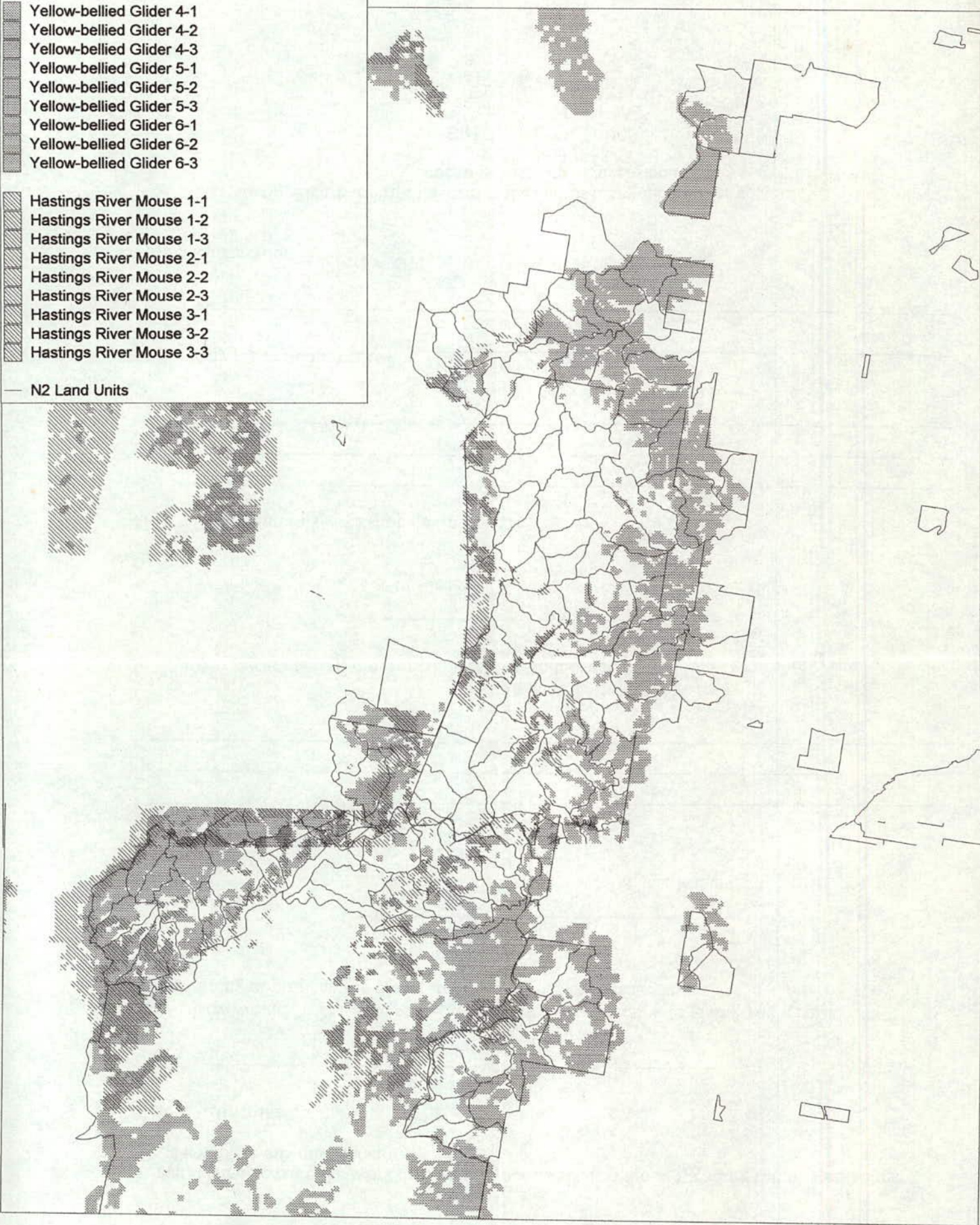




- Yellow-bellied Glider 4-1
- Yellow-bellied Glider 4-2
- Yellow-bellied Glider 4-3
- Yellow-bellied Glider 5-1
- Yellow-bellied Glider 5-2
- Yellow-bellied Glider 5-3
- Yellow-bellied Glider 6-1
- Yellow-bellied Glider 6-2
- Yellow-bellied Glider 6-3

- Hastings River Mouse 1-1
- Hastings River Mouse 1-2
- Hastings River Mouse 1-3
- Hastings River Mouse 2-1
- Hastings River Mouse 2-2
- Hastings River Mouse 2-3
- Hastings River Mouse 3-1
- Hastings River Mouse 3-2
- Hastings River Mouse 3-3

— N2 Land Units







# Schools Community Greening Program

## In-Service Workshop Survey - PROPAGATION

So that we may ensure the workshop meets your needs, and those attending future workshops, please complete this questionnaire.

Please Complete.

School: \_\_\_\_\_ Date: \_\_\_\_\_

1. How would you rate the value of the workshop in relation to giving you a basic understanding of propagating plants from seed? (Please indicate with a X)

0	10
No Value	Great Value

Comments

---

---

---

2. Was the content of the workshop easy to understand?

0	10
Not successful	Successful

3. How could this workshop be improved?

---

---

---

4. Any further comments: \_\_\_\_\_
- 

Thank you.

Please return this form at the end of the workshop, or post to:

Greening Australia - Queensland

GPO Box 9868

BRISBANE QLD 4001

Telephone: (07) 391 6655

Fax: (07) 391 6383



## FACSIMILE TRANSMISSION

To NPWS TSU PO BOX 914 COFFS HARBOUR 2450  
NEFA 123 KEEN ST LISMORE 2480

---

Attention	Gary Davey/Donella Anderson Georgia Beyer	Date	26/09/97
-----------	--	------	----------

---

Your Fax	516187 (NPWS) 224737 (NEFA)	Our Fax	62 5826
----------	--------------------------------	---------	---------

---

From	Peter St.Clair Forester - for District Forester - CASINO	Phone	(066) 62 4499
------	---	-------	---------------

---

No of Pages	3 reports (including this cover page)
-------------	---------------------------------------

---

your ref:

### Message

RE EWINGAR SF Cpts 604-608

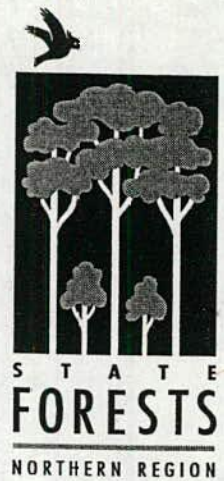
Please find enclosed the following reports pertaining to preparation of a harvesting plan for the above. This plan will be submitted in early October 1997.

Enclosed is:

1. Flora and fauna report
2. Old growth report
3. Koala report

The Northern Ewingar Owl Landscape map forwarded to you separately is a part of the planning process relevant to these compartments.

A copy of the proposed harvesting plan map will be forwarded when planning is complete.



State Forests of  
New South Wales

Casino District

PO Box 688

CASINO NSW 2470

Phone (066) 624499



## HARVESTING PROTOCOL ATTACHMENT

### Old Growth Mapping Source

RACAC Broad Area Old Growth Mapping Project

Interpretation: NPWS

Results Summary                      Test 1. Identification of Candidate Old Growth Forest Classes

<u>Candidate OGF</u>	<u>Net loggable area</u>
Polygons > 10ha	Yes
Contiguous areas > 10ha	No

Mapping Required                      Yes  
 Maps signed and stored with harvest plan?                      Yes

### Stump Count Test 2

Stump counts were conducted to determine the availability of a identified candidate oldgrowth area within compartment 607. Desk top review identified the area as possibly not being a candidate oldgrowth area. The accessible area was surveyed.

### Plot Summary

Cpt	Plot No	Mean dbhob 3 largest trees	No of stumps per 0.5 ha plot > 1/2 the mean dbhob of the 3 largest trees				Av No Stumps/ ha
			Moist Forest		Dry Forest		
			Pre 1960	Post 1960	Pre 1960	Post 1960	
607	1	86				10	20
607	2	91				3	6
607	4	37.5				5	10

### Comments:

Within 40m of plot 1 there is signs of a old log dump.

Outside of plots 2 and 3 there additional stumps were observed.

### COG Harvesting Decision

Disturbance threshold -                      dry forest type, post 1960                      > 5 stumps/ ha

Method:                      Old Growth Forest Methodology - Conservation Protocol agreed between  
 NPWS and                      SFNSW 29/11/96

Decision: An area of 14.3 ha was identified as not candidate oldgrowth ( please see BOGMP boundary redefinition via stump count map). The area past the 3rd stump count plot fell off steeply and no further plots were conducted.







**HARVESTING PLAN No 97/604Cas**  
**CASINO MANAGEMENT AREA - NORTHERN REGION**

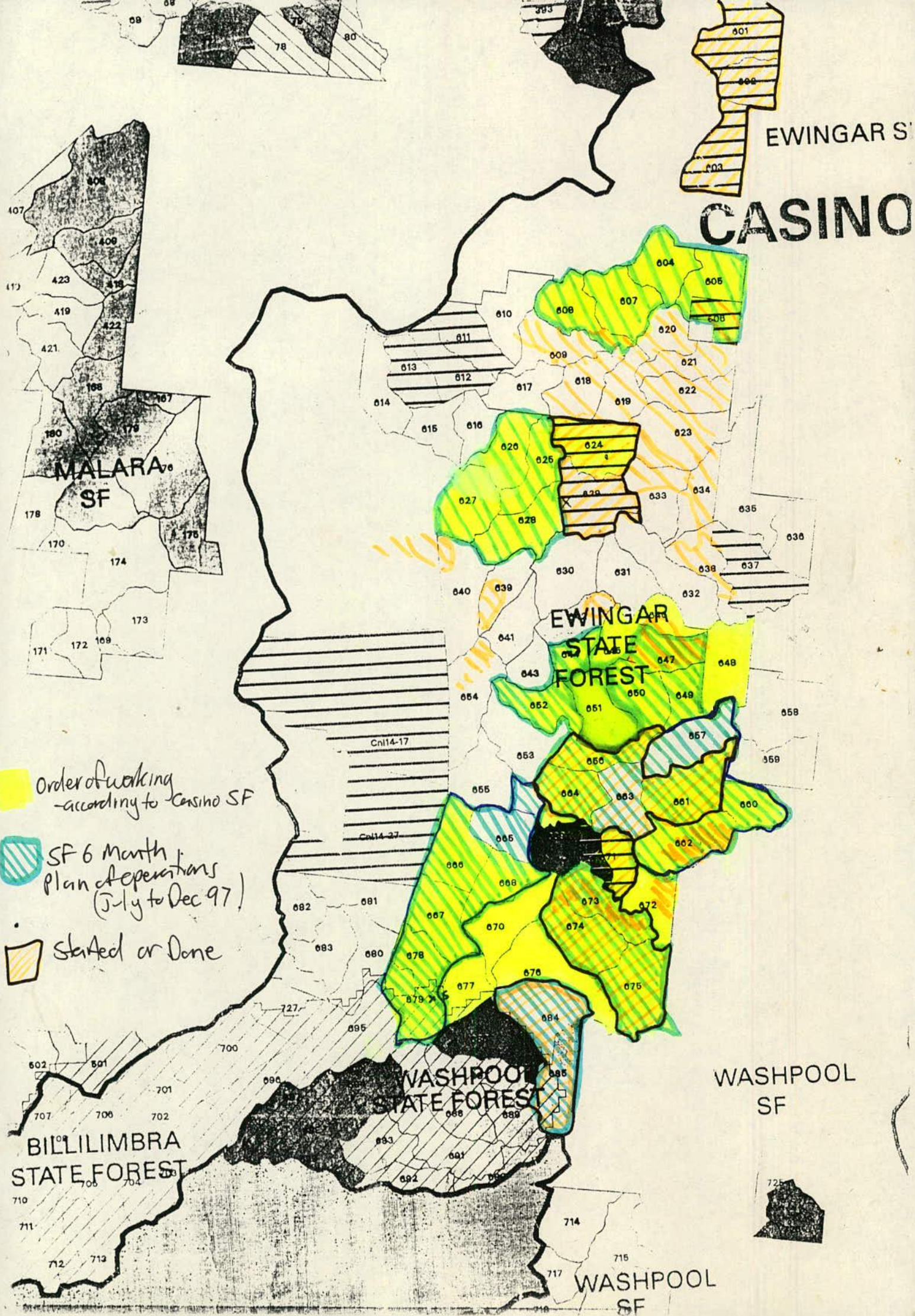
***Koala Protocol***

Application of Koala Protocol

Koala transects were performed by four District staff from 18th to 28th August 1997. Actual transect locations and data sheets are stored in the Compartment History Files and summarised below. 55 koala scats were located under a total of 11 trees over a transect length of 8.25 km and approximately 825 trees searched. Despite low numbers of scats, C606 was an **intermediate use** compartment as 2 trees in a 100m segment had scats. In C608 a travelling koala was located in spot light survey. An asterisk survey was performed but no scats found. State Forests will treat C608 as an **intermediate use** compartment. Other compartments are **low use** despite presence of preferred feed trees.

<b>Transect</b>	<b>Length (m)</b>	<b>Bearing</b>	<b>Species</b>	<b>Scats</b>	<b>Comment</b>
608/1	650	180	TWD,WM,RG	0	
607/2	1100	115	BWD,WM,BBT	8	WM 40-60 (3)
					TWD 40-60 (3)
					IBK 20-40 (2)
607/3	900	90	TWD,IBK,RG	5 old	RG 20-40 (2)
					TWD 20-40 (3)
606/4	450	160	IBK,WM,RG	22	RG 20-40 (8)
					TWD 20-40 (14)
606/5	450	50	WM,TWD,RG	7	TWD 20-40 (7)
605/6	1000	25	IBK,GG,WM	1	WM 40-60 (1)
605/7	600	150	IBK,WM,GG	0	
605/8	400	240	IBK,WM,GG	0	
604/9	1500	180	WM,TWD,IBK	12	TWD 20-40 (8)
					SG 10-20 (4)
604/10	400	290	WM,IBK,GG	0	
608/star transect	300		GG,TWD,WM	0	
<b>TOTAL</b>	<b>8250</b>			<b>55</b>	<b>11 trees</b>





EWINGAR S'

CASINO

MALARA  
SF

EWINGAR  
STATE  
FOREST

WASHPOOL  
STATE FOREST

BILLILIMBRA  
STATE FOREST

WASHPOOL  
SF

WASHPOOL  
SF

Order of working  
-according to Casino SF

SF 6 month  
Plan of operations  
(July to Dec 97)

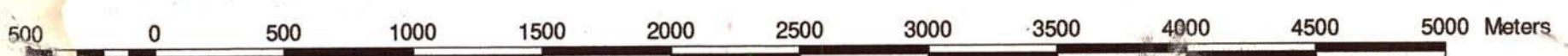
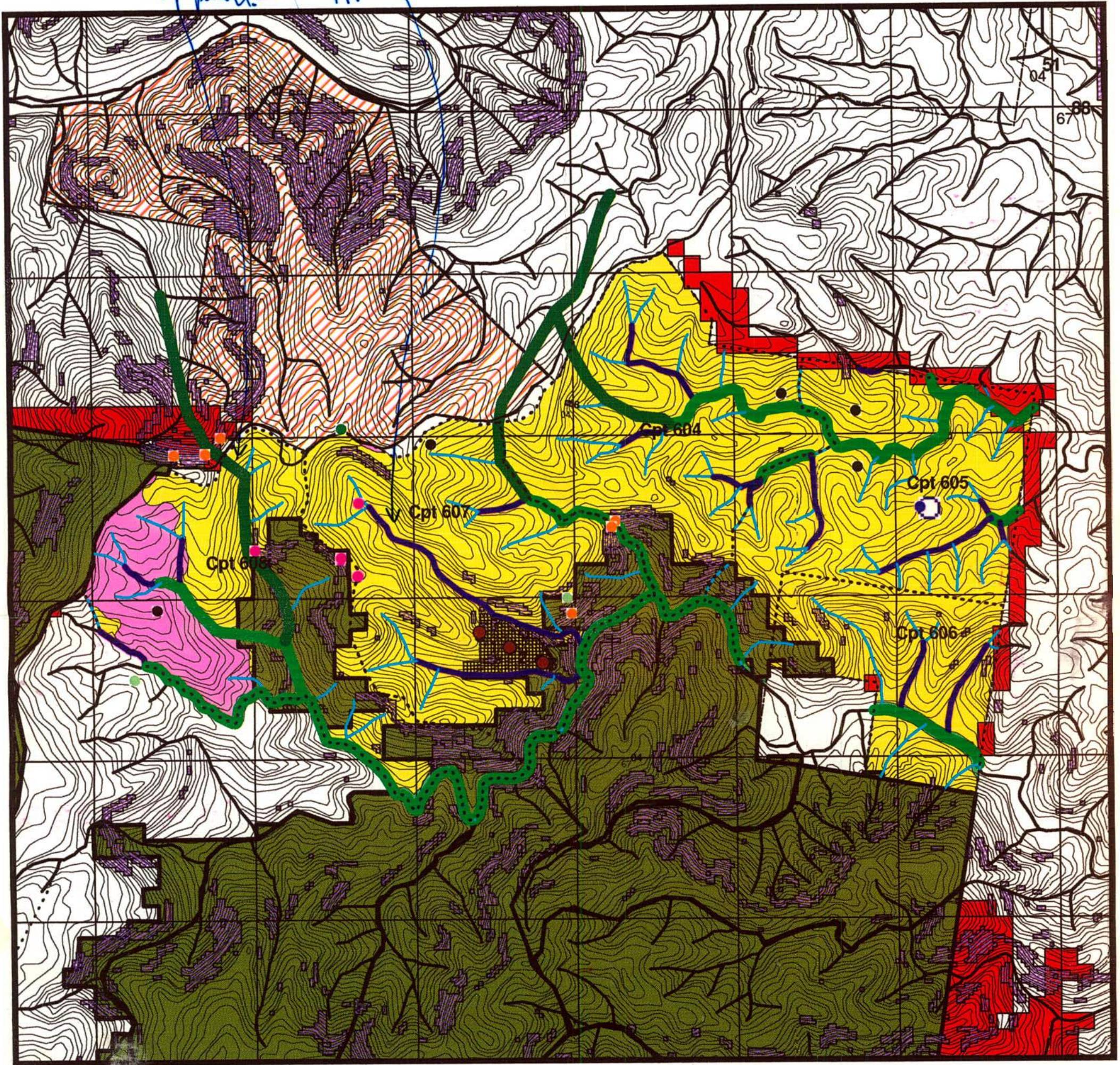
Started or Done



# **DRAFT** **NORTHERN REGION - CASINO DISTRICT** **HARVESTING PLAN OPERATIONAL MAP** **COMPARTMENT 604 - 608** **EWINGAR STATE FOREST NO. 845** **BULLDOG ROCK 9339 - 1 - N** **SCALE 1: 25 000** **26/09/1997**



*map on SW corner  
 should be strength of 400m*



<b>BOUNDARIES</b>		<b>NORMAL PRESCRIPTIONS</b>		<b>WATERCOURSES &amp; DRAINAGE</b>		<b>FLORA AND FAUNA</b>	
---	State Forest Boundary		Harvestable Area	---	External Drainage		Brush-tailed Rock Wallaby
....	Compartment Boundaries		Lease Hold Land Stump Count Area (Harvestable)		1st Order Stream		Glossy Black Cocktoo Feed Tree
<b>ROADS</b>			NON HARVEST AREAS		2nd Order Stream		Masked Owl Record
- - -	Natural Surface		Wildlife Corridor		3rd Order Stream		Masked Owl Nest Site ( 50m buffer)
---	Sealed or Gravelled		Slopes likely over 30 degrees		Catchment Greater Than 40 ha		Sooty Owl Record Yellow-bellied Glider V Notch Tree ( Retain 15 trees within 100m)
....	Four wheel drive		Owl Reserves		Catchment Greater Than 100 ha		Squirrel Glider
<b>DUMP SITES</b>			Cleared Land		Connection Corridor		Stump Count Plots
	Temporary Dry		Oldgrowth		Approved Crossings		
	Temporary Wet						

MN  
 11



Your reference  
Our reference 479E

21 October, 1997

North East Forest Alliance  
149 Keen St  
Lismore 2480

ATTENTION: GEORGIE BEYER



State Forests of  
New South Wales

Casino District

P.O. Box 688

Casino NSW 2470

Phone (066) 62 4499

Fax (066) 62 5826

**RE: LANDSCAPE PLANNING UNIT SOUTH OF LIONSVILLE RD EWINGAR,  
WASHPOL, AND BILLILIMBAR SF.**

Dear Georgie

Please find enclosed a proposal for a landscape approach to reserves for Powerful and Masked Owls within the Southern section of Ewingar, Western section of Washpool, and the Eastern section of Billilimbira State Forests.

This has been prepared according to the Owl Protocol signed off between NPWS and SF. A copy of the Protocol is attached along with the calculations required.

Since this Map influences licensing of soon to be submitted plans your early review would be appreciated.

Also enclosed is a Mt Belmore Plan for compartments 399, 401, 402, 403, 404, 406, & 407.

Andrew Whitfeld  
Forester  
For

Jacqui Parry  
Regional Manager  
Northern Region  
Native Forests Division



# **SOUTH EWINGAR, WASHPOOL, & BILLILIMBRA SF OWL LANDSCAPE MAP**

The map which applies to this narrative is attached. It has been prepared according to the Conservation Protocol agreed to by NPWS and State Forests and dated 22/5/97 and also attached. Calculations are detailed as follows:

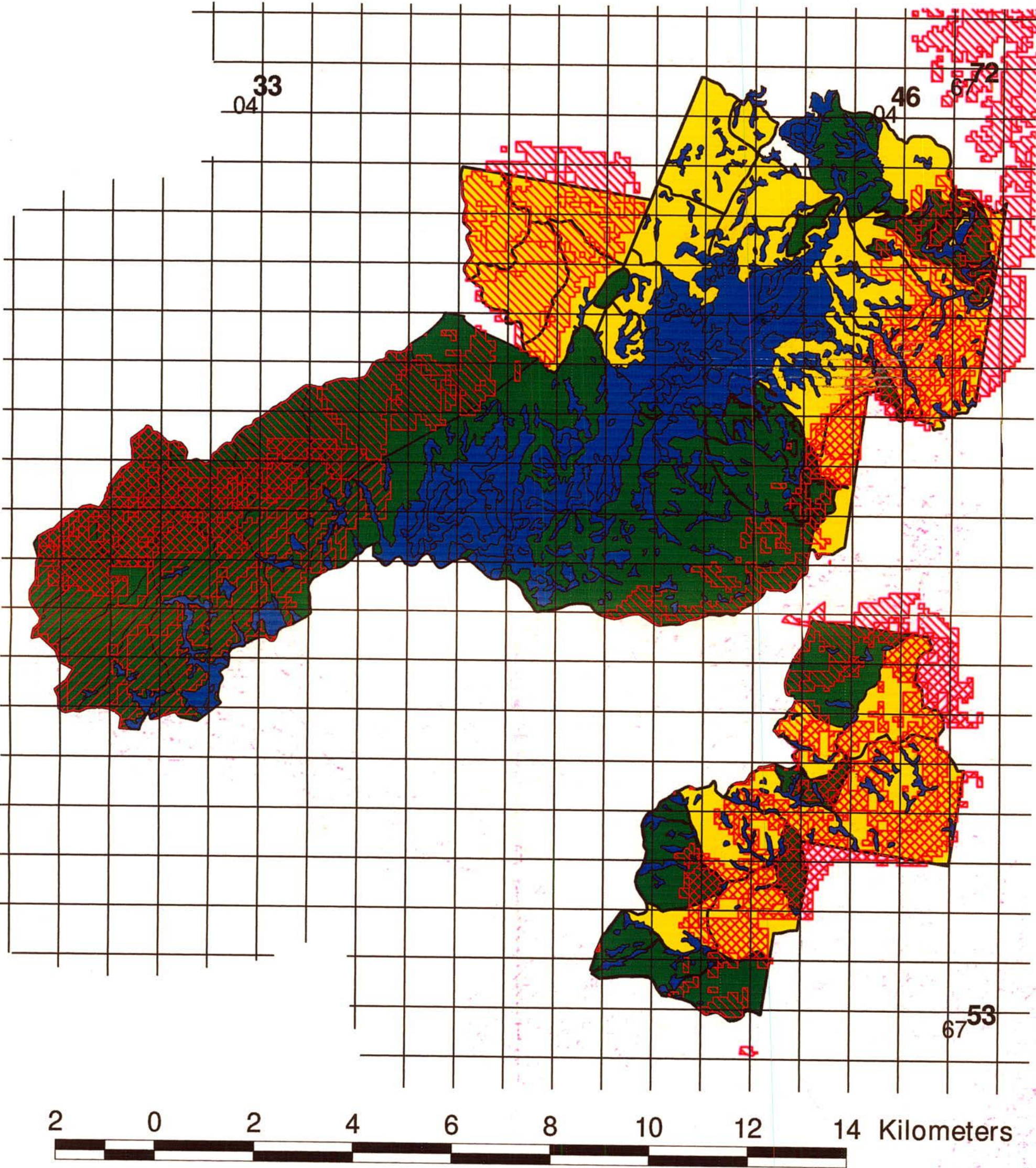
<b>1. Planning Area</b>	<b>hectares</b>
Planing Unit South of Lionsville Road	14 986
less non-suitable habitat    wetland	0
heath	0
large non-rip rainforest	3 123
<b>2. SUITABLE HABITAT</b>	<b>11 863</b>
<b>3. Target retained habitat (25% of 11 863)</b>	<b>2 966</b>
Actual	<b>6 993 (59%)</b>
Maximum allowable in IDFA cpts (70% of 6 993)	4 895
C686	163.7
C670	42.6
C676	28.9
(Compartment 686 in Wilderness Area)	
Actual in IDFA	<b>235 (3%)</b>
<b>4. Non-IDFA retained area</b>	<b>6 758</b>
Minimum of 30% of 6758 to be in patches > 100 ha ie	2 027
Areas > 100 ha( Cpts 669, 672, 673, 687, 688, 689, 690, 691, 692, 693, 695, 696, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 718, 720, 723, 724, 727,)	<b>6311 (93%)</b>
<b>5. A minimum of 25% of retained area should be retained of IAP modelled habitat</b>	
IAP Powerful Owl habitat in landscape	2 642
IAP Masked Owl habitat in landscape	2 261
Overlap of Masked & Powerful	1 104
Total IAP habitat	<b>3 799</b>
Area of IAP habitat required (25% of 6993)	1 748
Actual IAP (see spreadsheet)	<b>3 799 (54%)</b>



Cpt	Gross Reserved Area	IAP habitat Masked	IAP habitat Powerful	Masked & Powerful Overlap	IDFA Areas
669	141.0	-			
670	42.6				42.6
671	35.7	16			
672	101		101		
673	123.5		40.5		
676	28.9	27	22	22	28.9
678	12.5				
680	20				
685	97.6	60	8.6	8.6	
686	163.7	-			163.7
687	204.3	3			
688	208.7	-			
689	163.5	34			
690	105.2	100			
691	278.4	23			
692	144.2	-			
693	153.5	-			
694	73.4	-			
695	287.3	-			
696	223.2		40		
697	26.3				
698	56.3				
699	37.3				
700	489.6	365	51.5	30	
701	230.8	137	110.8	40	
702	315.9	110	315.9	110	
703	134.4		90		
704	144.5	23	144.5	23	
705	290.0	64	290	64	
706	211.5	200	160	160	
707	178.4	178.4	178.4	178.4	
708	119.6	119.6	119.6	119.6	
709	169.1	100	169.1	100	
710	204.3	58	204.3	58	
711	206.8		206.8		
712	187.4		187.4		
713	148.7		148.7		
714	293.3	154	35	35	
718	137.8	103.2	105.2	103.2	
719	24				
720	193.6	59.5	51	49	
721	63.5				
723	165.0		57		
724	105.5	7	3	3	
727	251.2		121		
Total	6993	2261.2	2641.8	1103.8	235.2



NORTHERN REGION - CASINO DISTRICT  
OWL RESERVES  
SOUTH EWINGAR, WASHPOOL, & BILLILIMBRA STATE FORESTS  
SCALE 1: 80 000  
07/10/1997



- |  |                                 |  |                        |
|--|---------------------------------|--|------------------------|
|  | STATE FORESTS RESERVES          |  | COMPARTMENT BOUNDARIES |
|  | MODELLED IAP MASKED OWL HABITAT |  | RAINFOREST             |
|  | MODELLED IAP POWER OWL HABITAT  |  | AVAILABLE AREA         |





**FACSIMILE TRANSMISSION**

To NPWS TSU PO BOX 914 COFFS HARBOUR 2450  
NEFA 123 KEEN ST LISMORE 2480

Attention Gary Davey/Donella Anderson  
Georgia Beyer Date 25/09/97

Your Fax 516187 (NPWS)  
224737 (NEFA) Our Fax 62 5826

From Peter St.Clair Frester - for  
District Forester - CASINO Phone (066) 62 4499

No of Pages 6 (including this cover page)

your ref:

**Message**

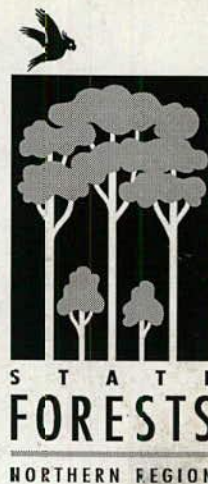
**RE Ewingar Owl Landscape map**

Please find enclosed the proposed owl reserve map for northern Ewingar SF.

This has been prepared according to the Owl Protocol signed off between NPWS and SF. A copy of the Protocol is attached along with the calculations required.

Since this Map influences licensing of soon to be submitted plans (C604-8, C625-8) your early review would be appreciated.

Thank you.



State Forests of  
New South Wales

Casino District

PO Box 688  
CASINO NSW 2470  
Phone (066) 624499



NOTES 25/9/97

NORTHERN EWINGAR SF OWL LANDSCAPE MAP

The map which applies to this narrative is attached. It has been prepared according to the Conservation Protocol agreed to by NPWS and State Forests and dated 22/5/97 and also attached. Calculations are detailed as follows:

	hectares
<b>1. Planning Area</b>	
Ewingar SF North of Lionsville Road	16428
less non-suitable habitat	
wetland	0
heath	0
large non-rip rainforest	1152
<b>2. SUITABLE HABITAT</b>	15276
<b>3. Target retained habitat (30% of 15276)</b>	3819
Maximum allowable in IDFA cpts (30% of 3891)	1146
C631	79
C658	390
C659	284
Actual in IDFA (20%)	753
<b>4. Non-IDFA retained area</b>	3066
Minimum of 30% of 3066 to be in patches > 100 ha ie	920
Areas > 100 ha( Cpts 615, 618,619,621,622,623)	1195
(This is 39% see cpts on attached spreadsheet)	
<b>5. A minimum of 25% of IAP modelled habitat should be retained</b>	
IAP Powerful Owl habitat in landscape	917
IAP Masked Owl habitat in landscape	5370
less estimated PO overlap with MO: (50% of 917)	459
Total IAP habitat	5828
Area of IAP habitat required (25% of 5828)	1457
Actual IAP (see spreadsheet)	2360
Percentage actually retained	40%
<b>TOTAL AREA OF RESERVES</b>	3932
RESERVES (% of suitable habitat 3932/15276)	25.7%



Cpt	Note	Gross area	IAP habitat	Cpt	Note	Gross area	IAP habitat
604		231	13	627		280	15
605		222	22	631	IDFA	236	0 rf
607		275	21	632		343	42
608		253	73	635		392	65
610		246	42	638		216	30
611		236	23	646		124	70
612		230	35	647		195	59
613		204	17	648		292	61
614		228	30	649		152	18
615		179	166	650		235	35
618		236	185	651		258	41
619		191	166	656		180	30
620		158	83	657		282	36
621		194	129	658	IDFA	390	76
622		227	214	659	IDFA	284	70
623		364	335	660		172	22
624		297	83	661		343	53
Total	Gross	8345 ha		Total	Habitat		2360 ha



Peter St Clair,  
For your info  
Mike

**FACSIMILE TRANSMISSION**

To	The District Foresters Northern Region Planning Managers, Central, Southern Jim Shields, Southern Charlie Mackowski, HO		
Attention		Date	22/5/97
Your Fax		Our Fax	066 512909
From	Mike Rowland - Planning Manager	Phone	066 528900
No of Pages	1 (including this cover page)	File No	2101

**Message**

**Re: Conservation Protocols - Owl Prescriptions**

Leonie Walsh (Grafton District) and Mike Rowland met with the NPWS zone office re the conservation protocol owl prescriptions.

A set of principles has been formulated to allow the Owl protocols to be converted to more of a landscape approach. This approach may be submitted to HO to negotiate with NPWS HO if acceptable to Districts.

The approach is:

**Objectives**

- To cater for the conservation of the Masked and Powerful Owls throughout public land.
- To develop a planning system that a priori caters for large forest owls.
- To give certainty in the Harvest Planning process.
- To minimise conflicts between meeting conservation and resource objectives/commitments.



State Forests of  
New South Wales

Northern Region

PO Box J19

Coffs Harbour Jetty NSW 2450

Phone (066) 52 8900



## Design Principles

- Retain suitable habitat dispersed through the landscape
- Some large patches should be retained
- The Planning area should be about 10,000 ha, but could vary by  $\pm 50\%$  depending on the situation
- IDFA areas, legislative reserves do make a contribution.
- Applies to Crown land only, particularly State Forest and National Parks and reserves.
- Small scattered areas of forest can be amalgamated with other patches of forest, or can stick to the present protocol process. It is envisaged the landscape approach would be introduced as a general rule for the larger forest areas.

## Design Rules

1. A minimum of 25% of suitable habitat must be retained across the planning area. Suitable habitat does not include large wetland areas, large heath areas, large non-forest areas, large non riparian rainforest areas. It includes all other forest areas.
2. Non suitable habitat is excluded from the gross area when making the calculations.
3. Of the minimum 25% area retained, a minimum of 30% (or 7.5% of the gross area) must not be in IDFA compartments. The 7.5% area can include PMP exclusions, riparian habitat, flora reserves, EPA exclusions, other protocol exclusions such as old growth etc.
4. In the non-IDFA retained area, a minimum of 30% should be in patches of reasonable size. ( as a guide, 100 ha would be a reasonable size patch).
5. A minimum of 25% of the modelled LAP habitat should be retained. This 25% can come from IDFA compartments, other reserved areas etc. The objective is to ensure 25% of the modelled habitat (which is more likely the high quality habitat) is retained. This LAP modelled habitat has been provided in digital form from the NPWS to Regions.

## Future Process

Could Districts please review this proposal by close of business Wednesday 28th May and let me know if this is a manageable system.



I suggest you trial it in a couple of areas where you have had problems with the present protocols.

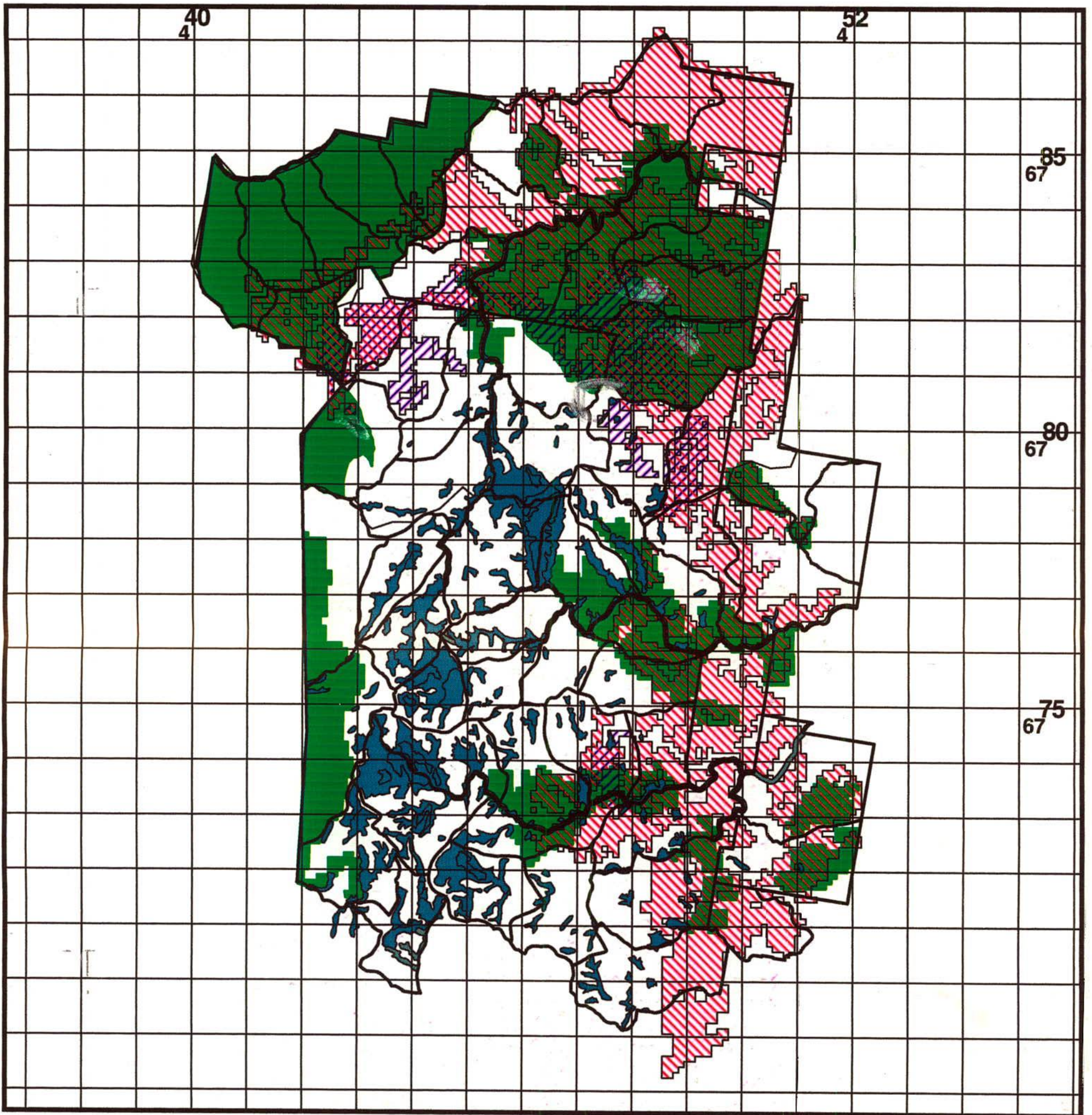
If suitable to SFNSW and NPWS a joint proposal from NPWS and SFNSW Northern Regions will be sent to HO of respective agencies to determine if this process can be implemented formally.

For your attention please.

Mike Rowland  
Planning Manager  
**NORTHERN REGION**  
22/05/97



NORTHERN REGION - CASINO DISTRICT  
 NORTH EWINGAR STATE FOREST  
 OWL LANDSCAPE MAP  
 POWERFUL AND MASKED OWLS  
 SCALE 1: 75 000  
 26/09/1997



1 0 1 2 3 4 5 6 7 8 9 10 Kilometers



**BOUNDARIES**

— Compartment

**OTHER**



Modelled Masked Owl Habitat



Modelled Powerful Owl Habitat

**OTHER**



Owl Reserve

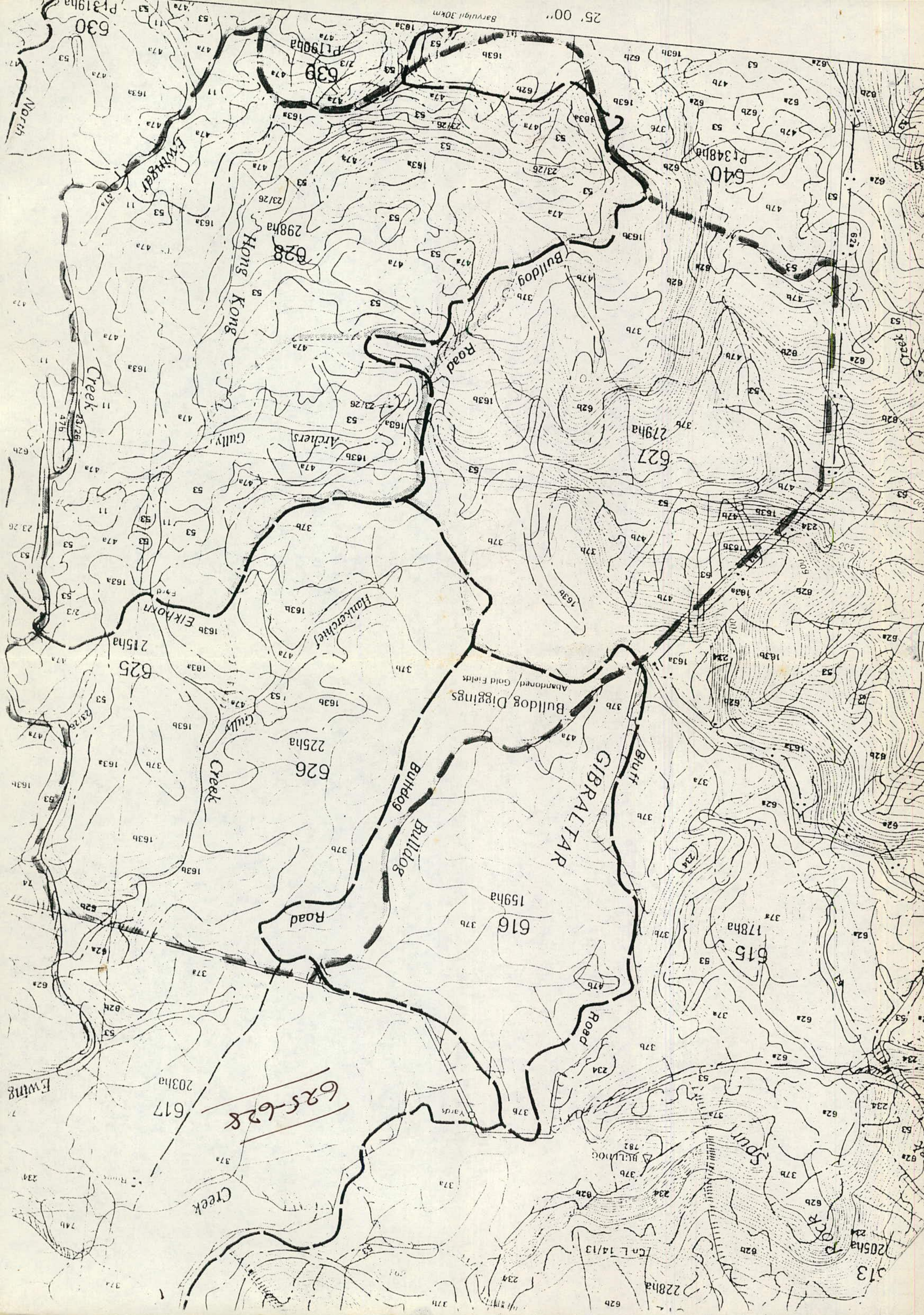


Rainforest







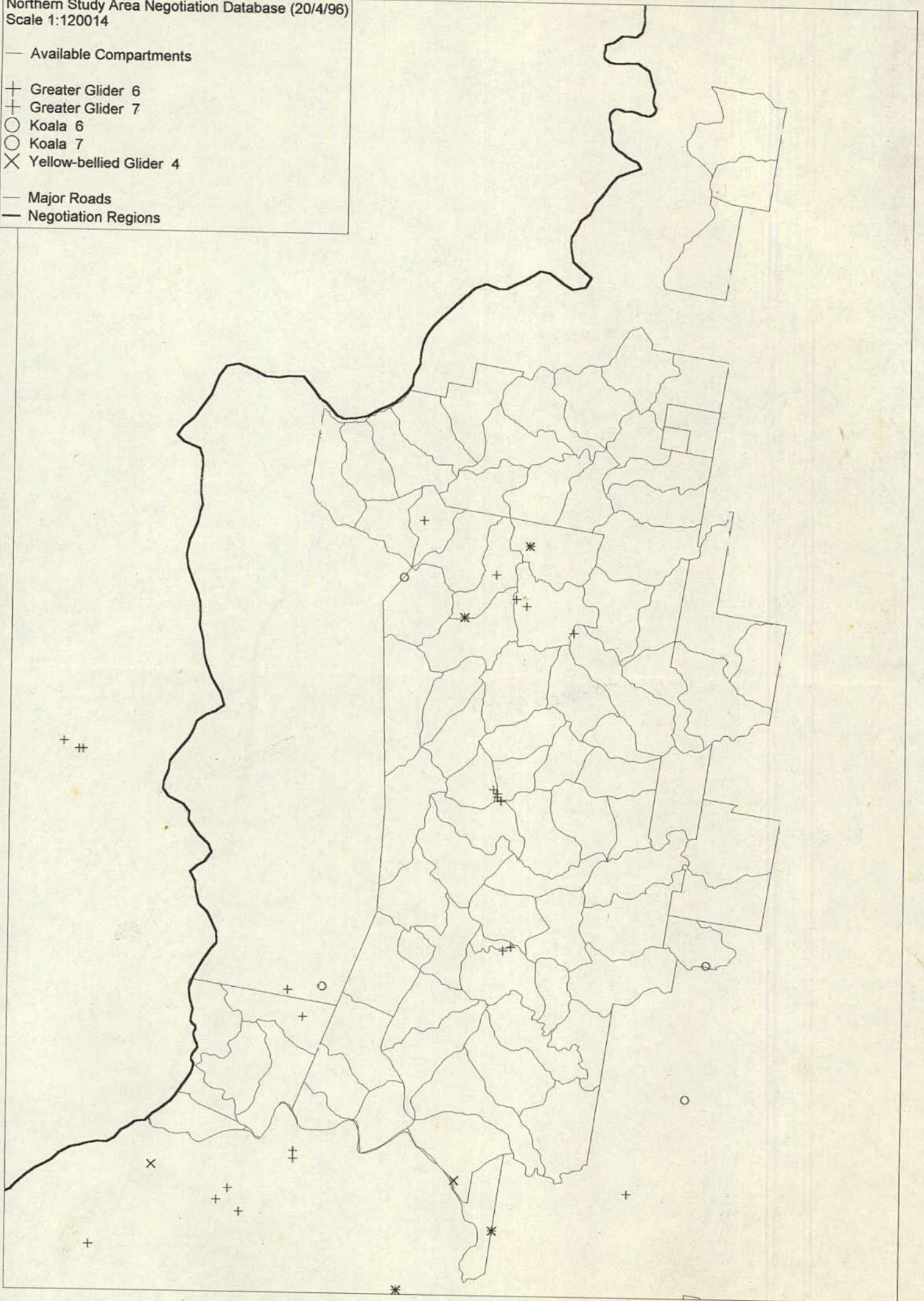




— Available Compartments

- + Greater Glider 6
- + Greater Glider 7
- Koala 6
- Koala 7
- × Yellow-bellied Glider 4

- Major Roads
- Negotiation Regions





— Available Compartments

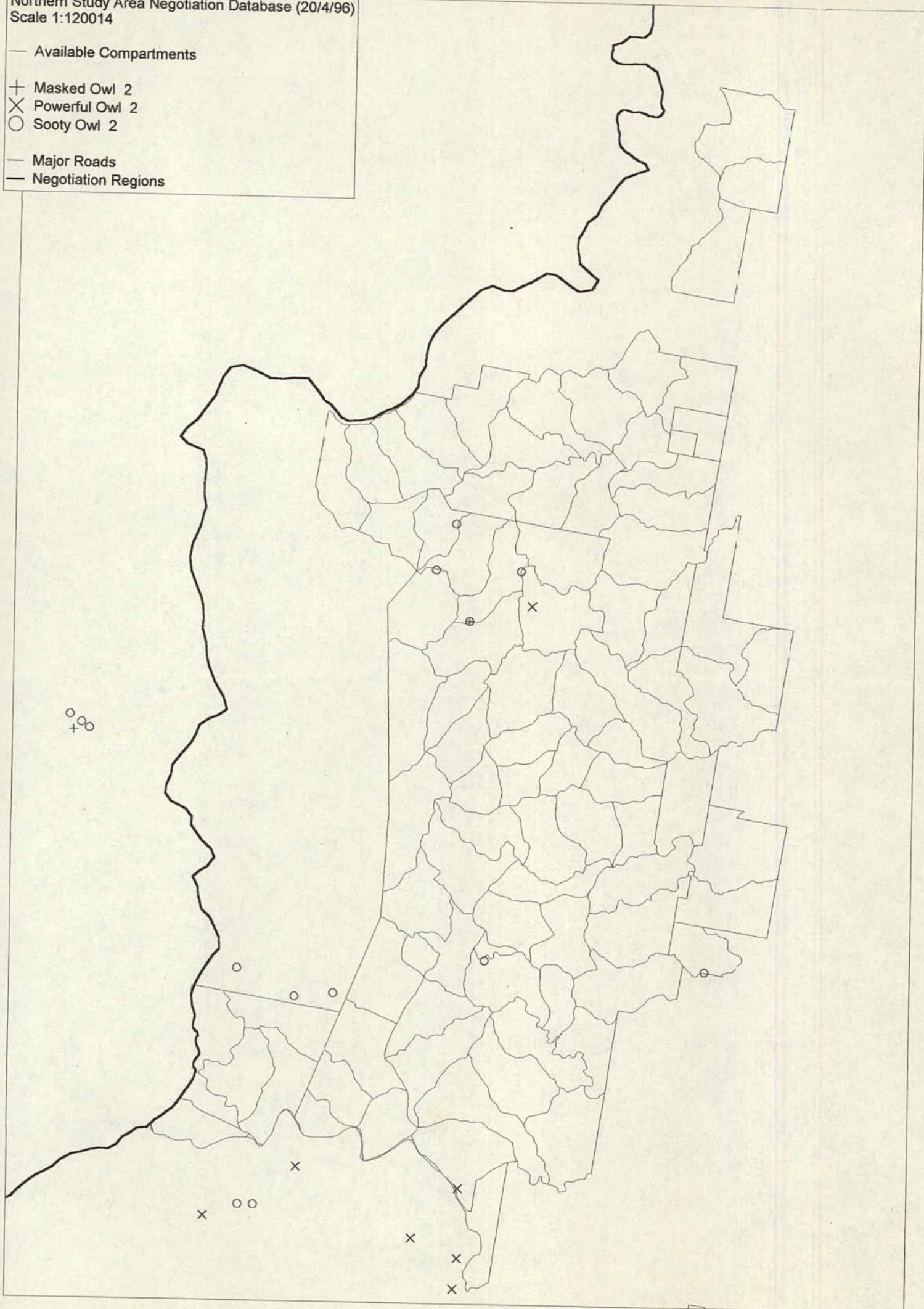
+ Masked Owl 2

X Powerful Owl 2

○ Sooty Owl 2

— Major Roads

— Negotiation Regions



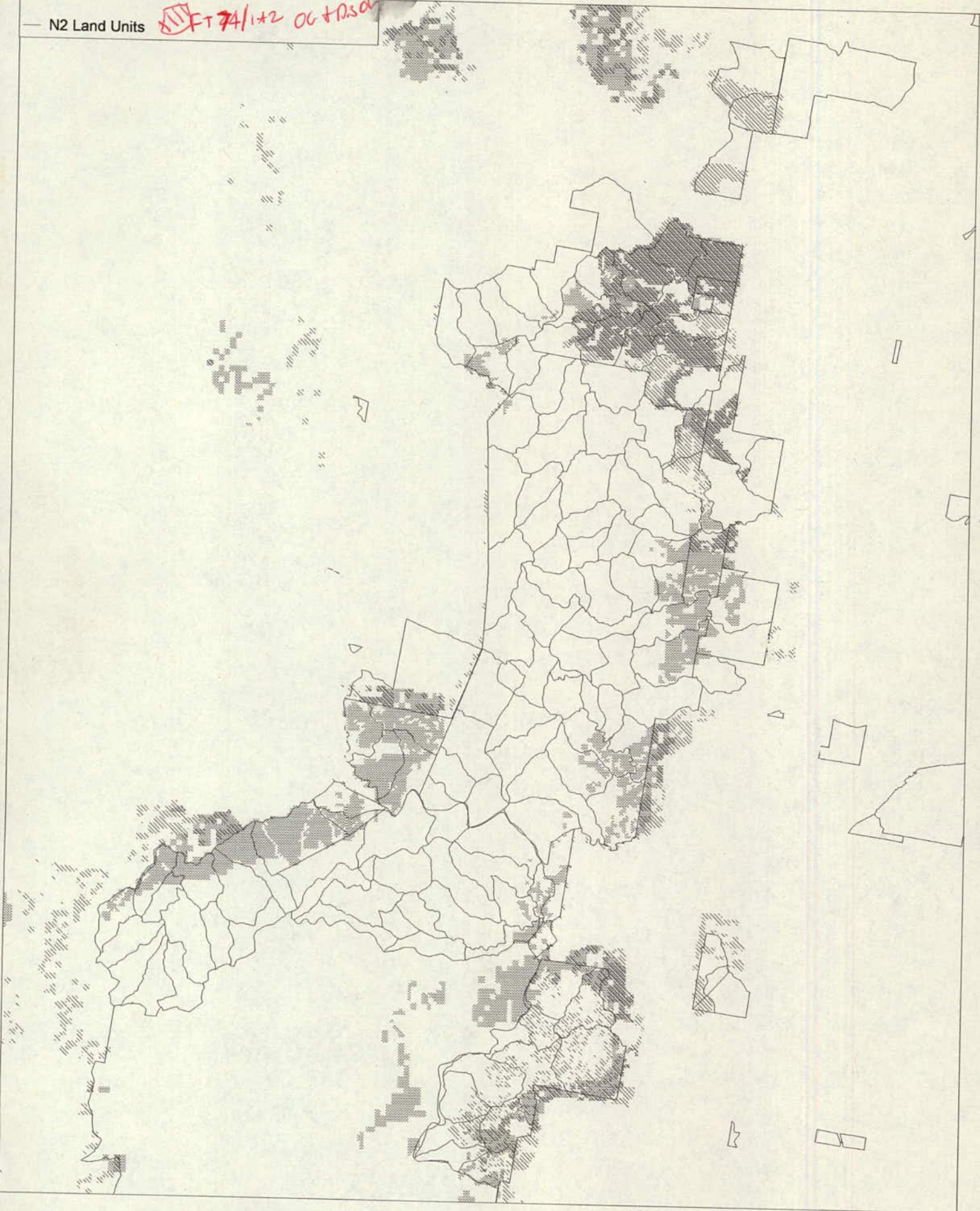


MO2.2 & OG & Dis OG

N2 Land Units

FT 74/1+2 OG + Dis OG

Marsh Owl





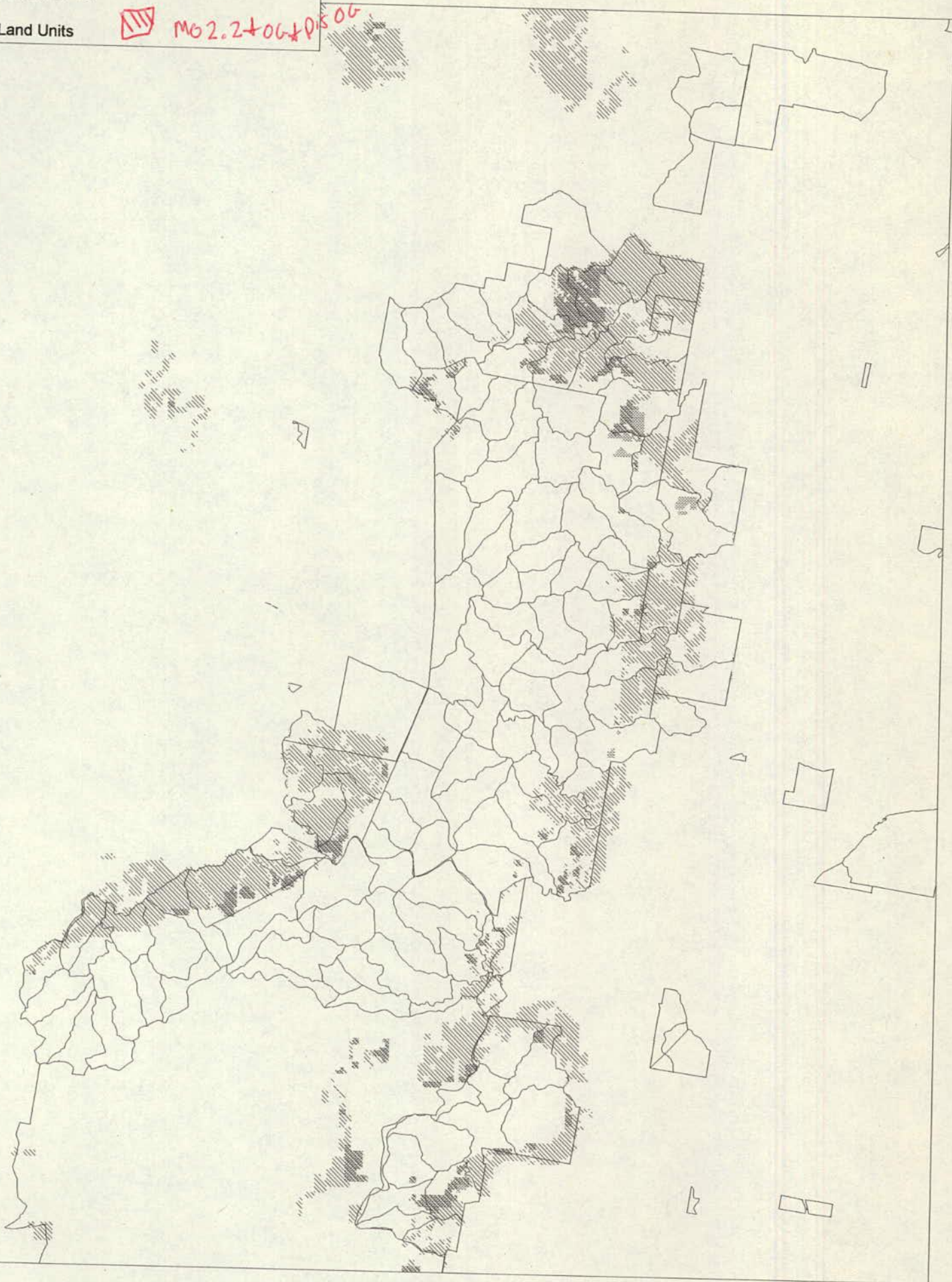
MO2.1 & YBG 4.1

N2 Land Units



MO2.2+OG+Pis OG

Masked Owl



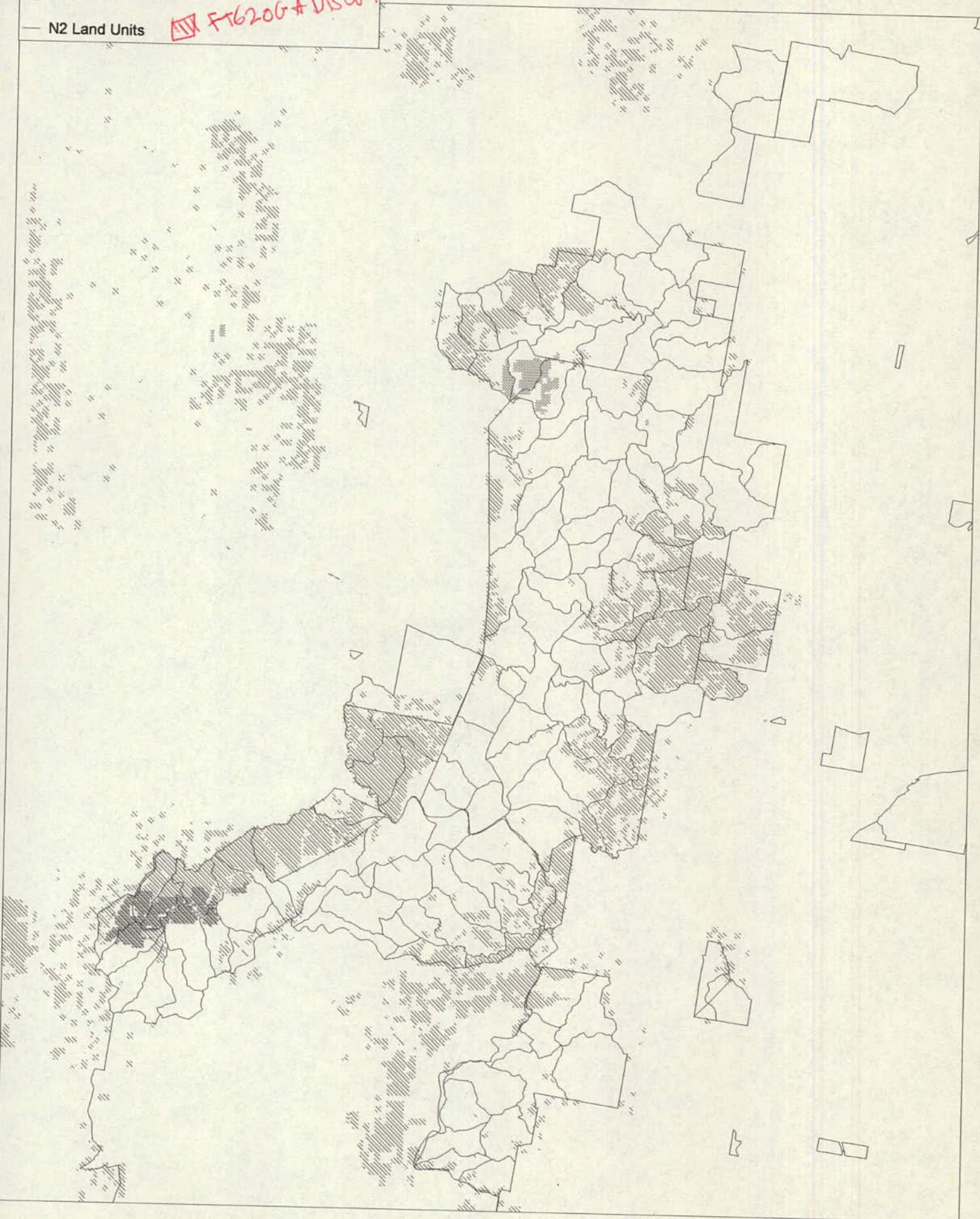


PO2/1&2 & MO 2/1&2

N2 Land Units

FT620G + Discr.

Marshes

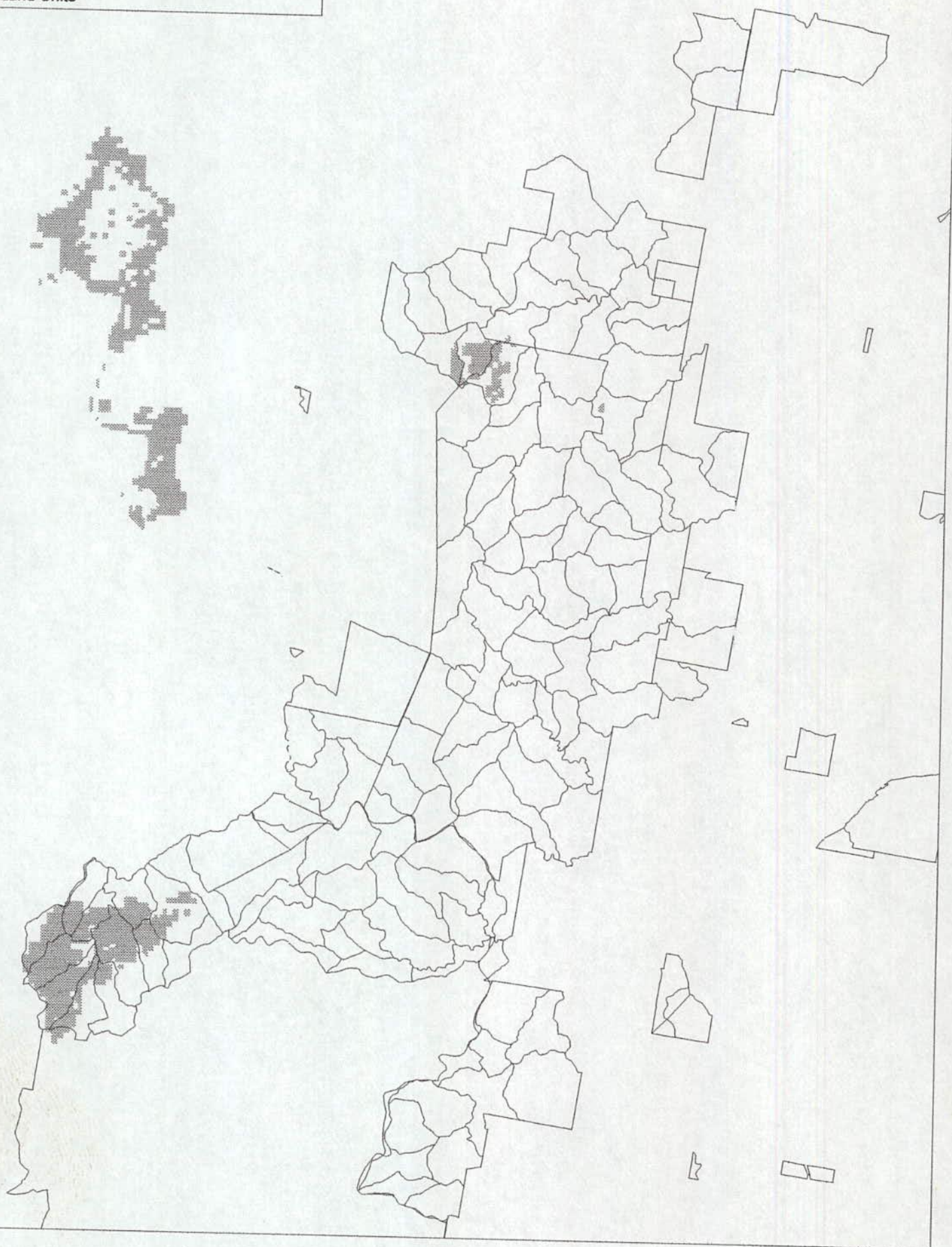




*Powerhouse*

■ PO 2.1 & 2.2

— N2 Land Units

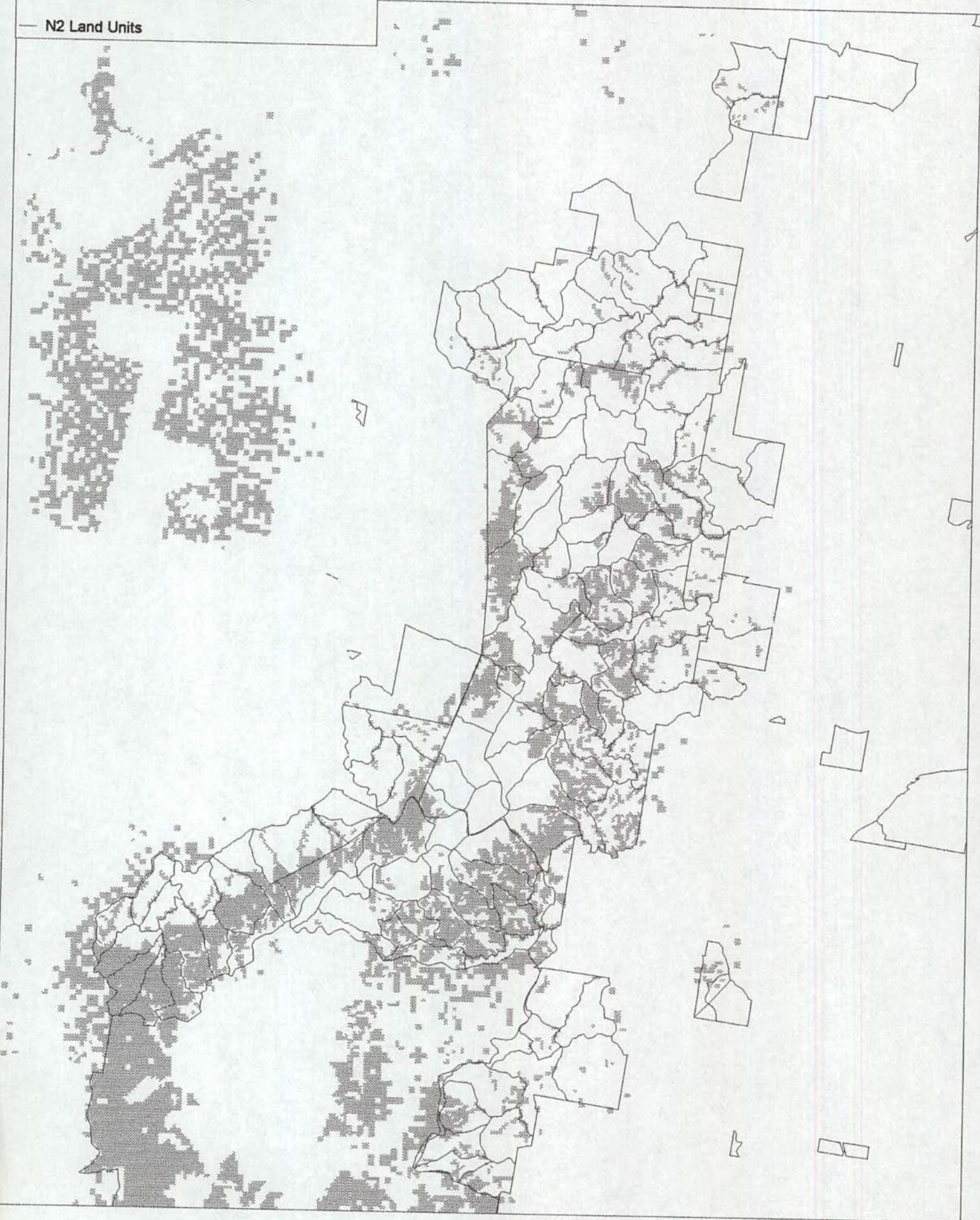




■ FT 47,53,163 & OG,DisOG,M,DisM

— N2 Land Units

*Parrot Owl*

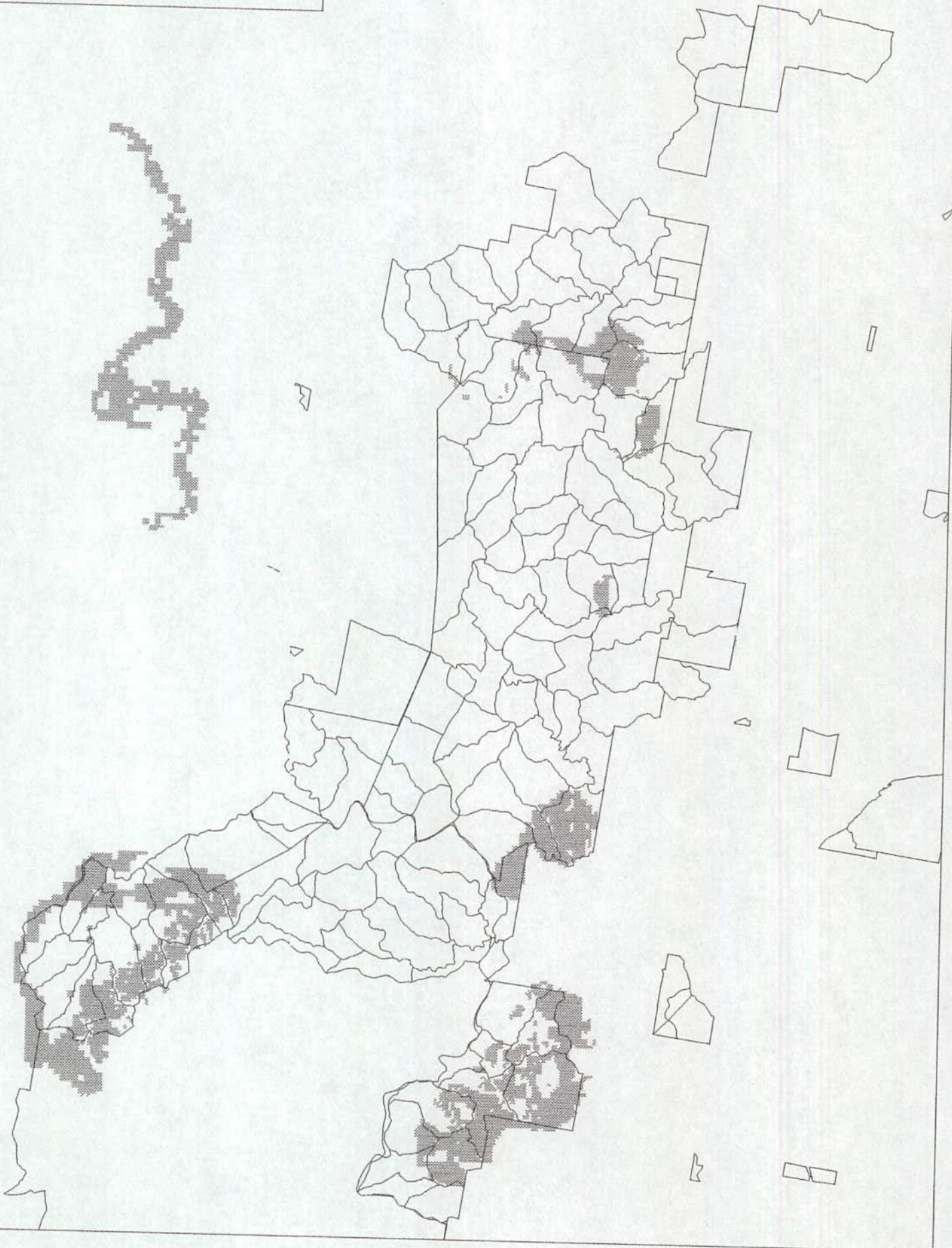




PO 2.3 & OG, DisOG, M, DisM

N2 Land Units

*Parish owl*

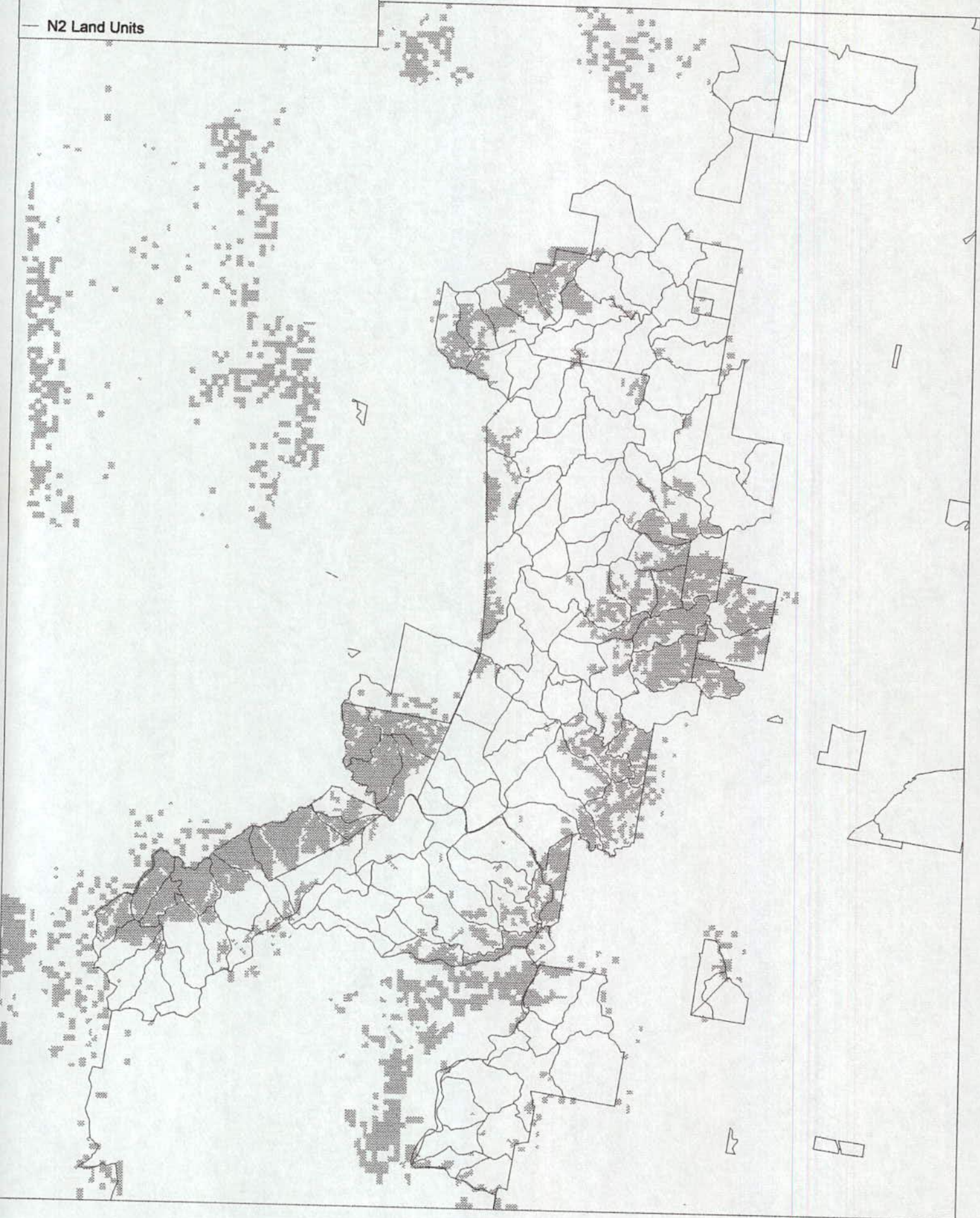




■ FT60&62 OG &dis OG

— N2 Land Units

*Powerful Owl*





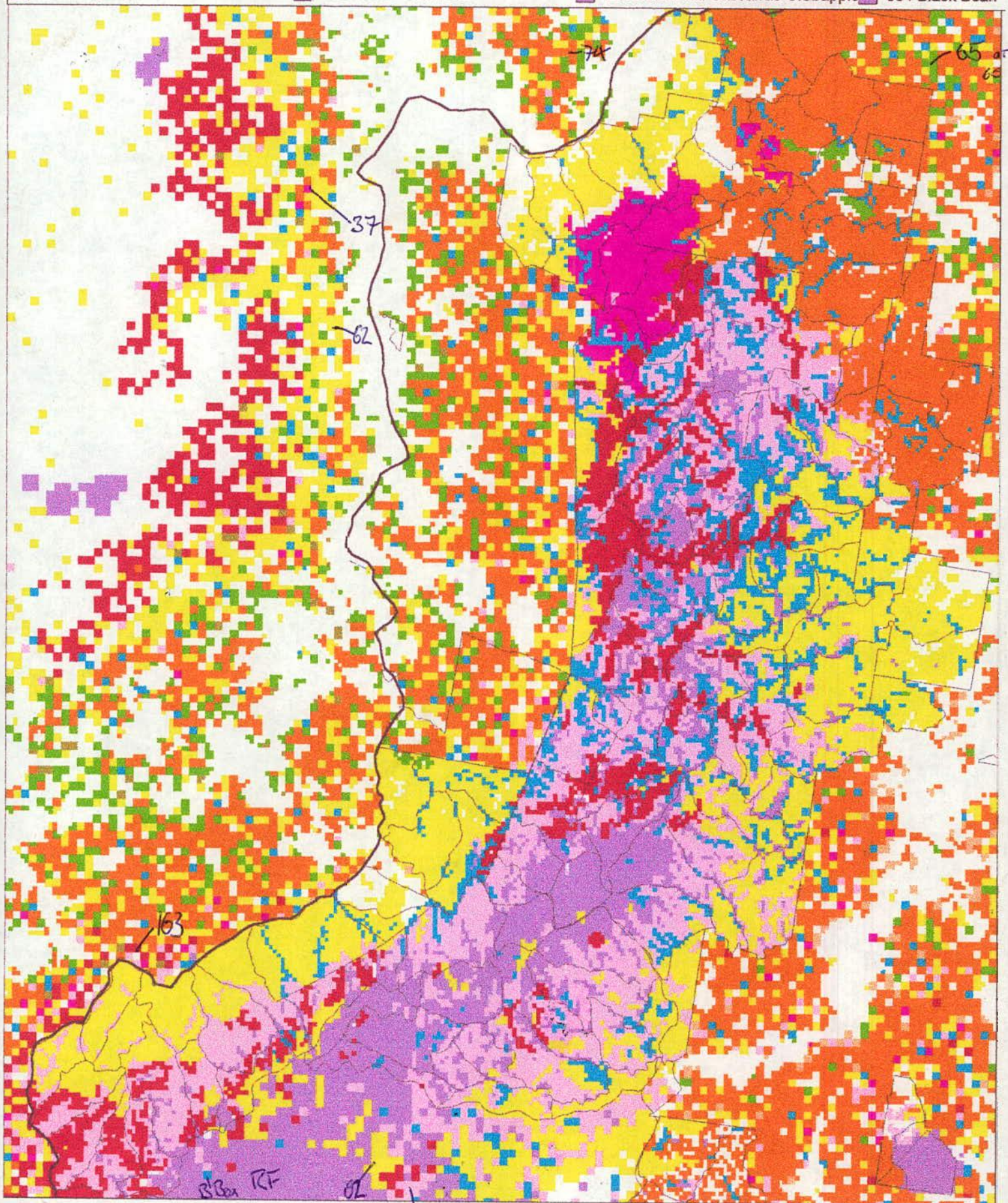
Scale 1:122348

001 Booyong

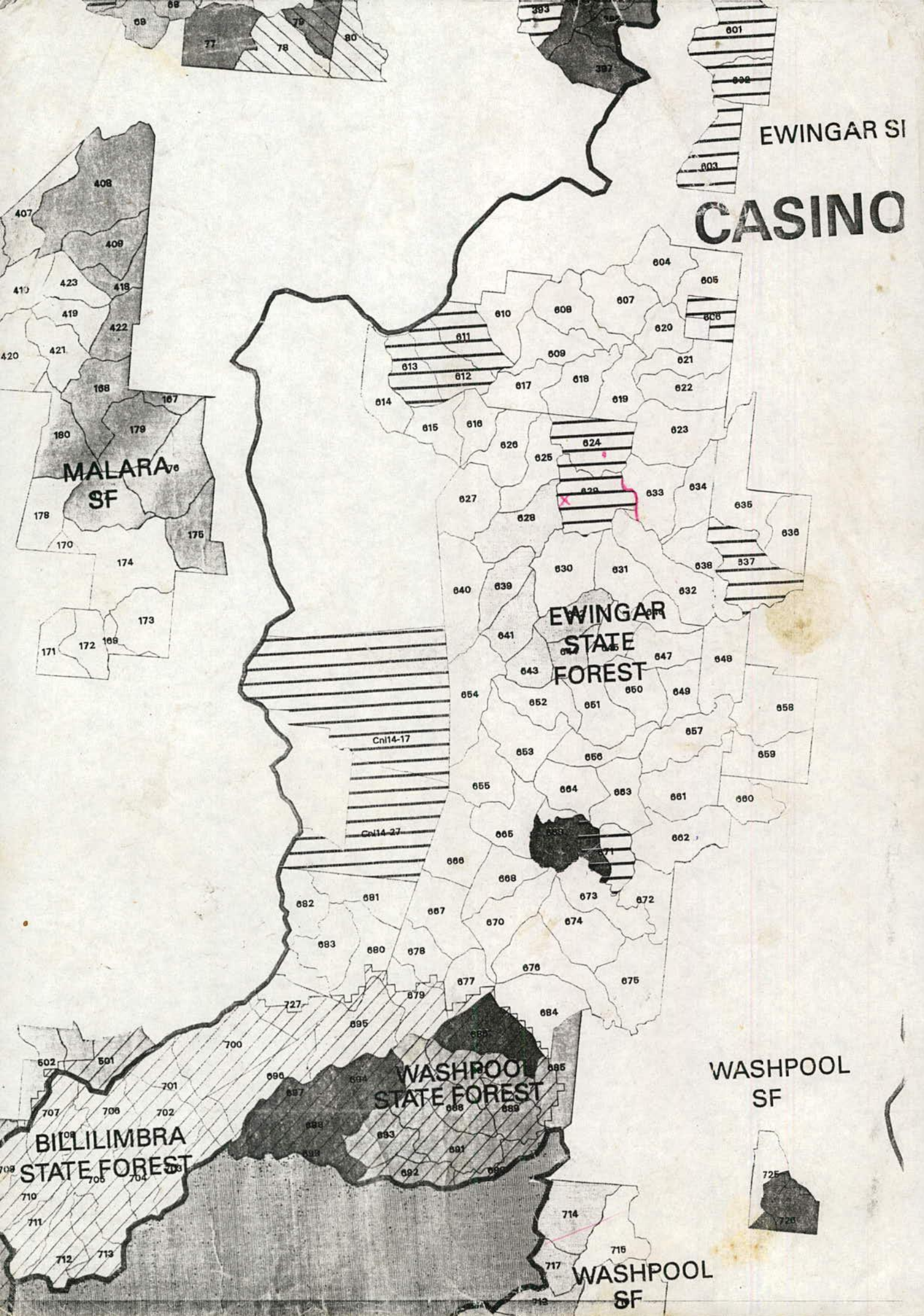
002 Yellow Carabeen

003 Corkwood-Sassafras-Crabapple

004 Black Bean







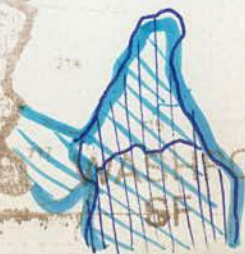
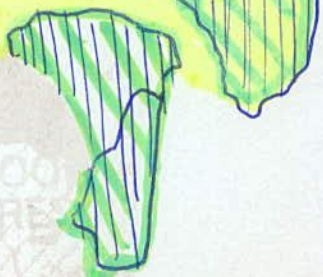
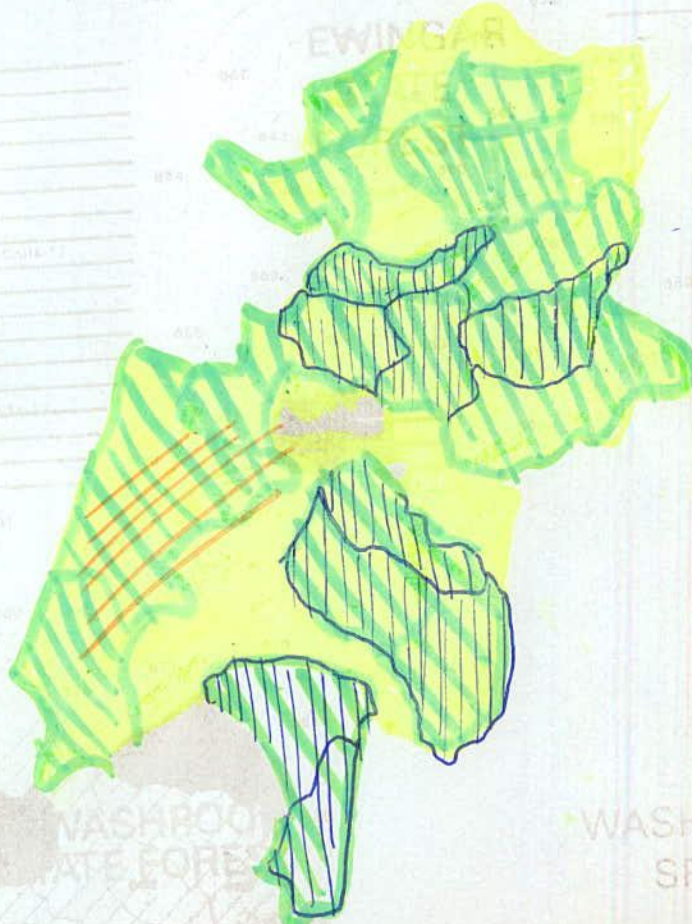
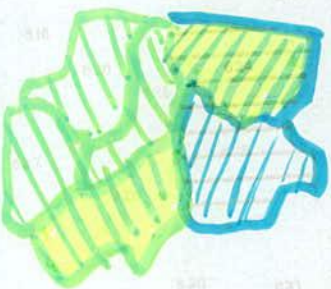


 Done 96  
 current done



EWINGAR SI

CASINO



MALARA  
SF

EWINGAR

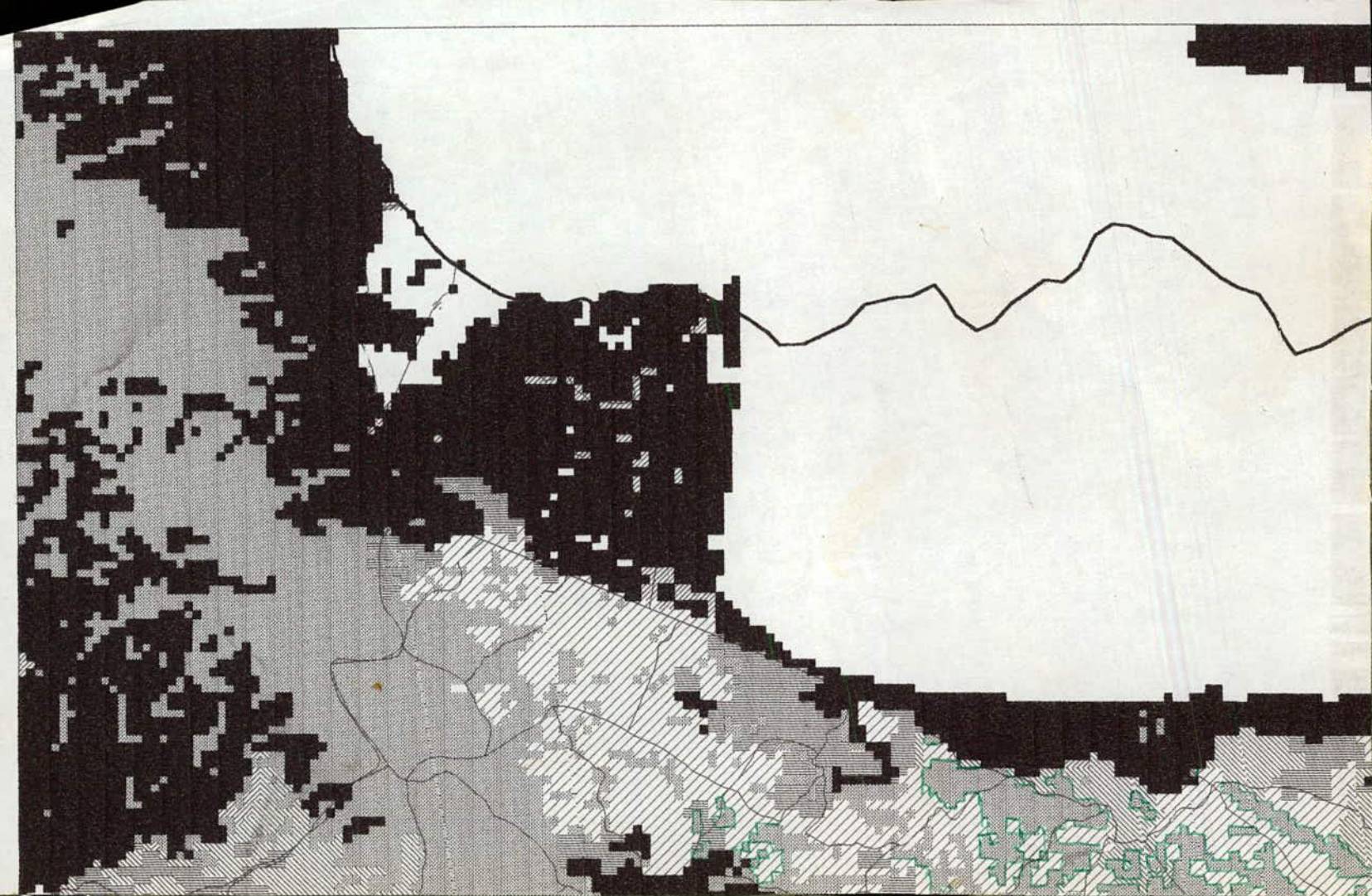
WASHPOOL  
STATE FOREST

WASHPOOL  
SF

BILLILIMBRA  
STATE FOREST

WASHPOOL  
SF









# REST TYPES

Forest Red Gum - Grey Gum/Grey Ironbark -  
Roughbarked Apple

Spotted Gum - Grey Ironbark/Grey Gum

Spotted Gum - Grey Ironbark/Grey Gum  
Site height generally > 30m

Spotted Gum - Grey Ironbark/Grey Gum  
Site height generally ~ 30m

Spotted Gum - Grey Ironbark/Grey Gum  
Regeneration Site height generally > 30m

66
70/76
74a
74b
74ra

