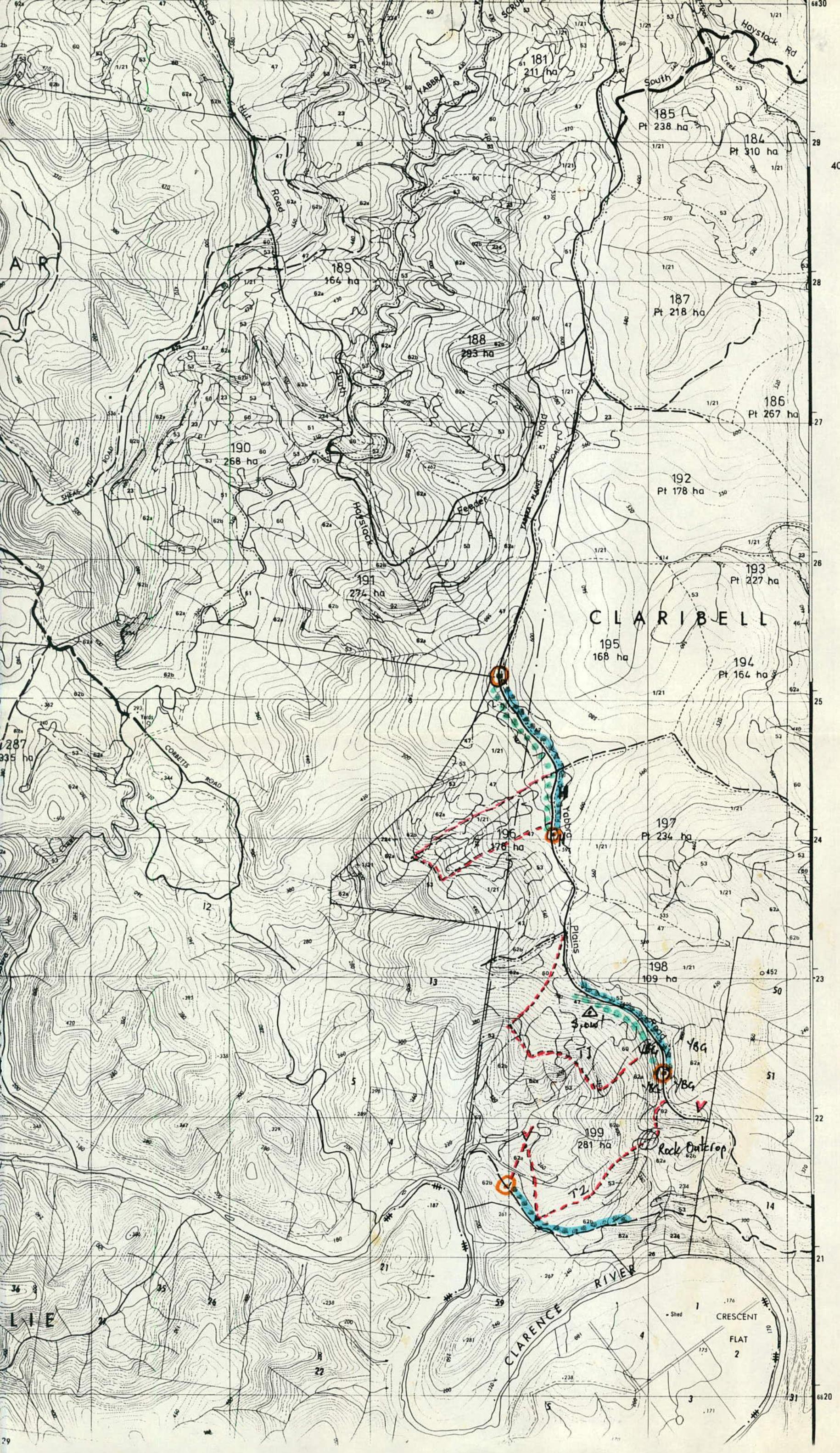




LEGEND

- | | |
|----------------------------|--|
| Call Playback Site..... | <input checked="" type="radio"/> |
| Spotlight Transect..... | <input checked="" type="radio"/> |
| Scat Transect..... | <input checked="" type="radio"/> |
| Traverse Survey..... | <input checked="" type="radio"/> |
| Bat Trap..... | <input checked="" type="radio"/> |
| Sooty Owl..... | <input checked="" type="radio"/> |
| Powerful Owl..... | <input checked="" type="radio"/> |
| Masked Owl..... | <input checked="" type="radio"/> morl |
| Potoroo..... | <input checked="" type="radio"/> |
| Yellow-bellied Glider..... | <input checked="" type="radio"/> YBG |
| Glossy-black Cockatoo..... | <input checked="" type="radio"/> GBC |
| Rufous Bettong..... | <input checked="" type="radio"/> |
| Koala..... | <input checked="" type="radio"/> K |
| V notched Trees..... | <input checked="" type="radio"/> |



FACSIMILE TRANSMISSION

To NEST CONSERVATION REPS / C BIG SCENB E.C.
Attention G. BEYER Date 17/3/98
Your Fax L. 37 Our Fax (0266) 625826
From MARK CARRON Phone (0266) 624499
No of Pages 21 (including this cover page) = 21



Message FLORA & FAUNA SURVEY RESULTS
CPT 286 YABBA S/F
URBENVILLE MANAGEMENT AREA

State Forests of
New South Wales
Northern Rivers Region
PO Box 688
Casino NSW 2470

FOLLOWING ARE ²⁰ ~~21~~ PAGES TO COMPLETE
THE REPORT PACKAGE.

THIS IS AS AGREED AT TODAY'S HAB MEETING

REGARDS

A handwritten signature in black ink, appearing to read "J. Carron".



**STATE FORESTS of NSW.
THREATENED SPECIES PROTOCOL PRE-LOGGING AND
PRE-ROADING SURVEY REPORT.**

NORTHERN REGION URBENVILLE MANAGEMENT AREA
RIVERS

STATE FOREST: YABBRA

SURVEY REPORT NO: YA1.3/98 COMPARTMENT 286

Flora and Threatened Fauna Features Traverse

Net Area: 192 hectares

1. Conservation Protocol Appendix I Flora Detections

Species Name	AMGNorth	AMGEast	Locality Description	Date	Observers Name	Number Observed	Count/Estimate
<i>Tylophora</i> <i>woolsii</i>					D. Binns		
<i>Plectanthrus</i> sp.					D. Binns		

Notes: See Doug Binns' report (11/3/98) and Roger Heywood's report (8/9/97) for further details.

2. Conservation Protocol Threatened Fauna Features Detected

Feature Type	Marked in Field	Marked on Map

Notes: See reports above for further details.

NORTHERN RIVERS REGION - Threatened Species Pre-logging and Pre-roading Survey
NORTHERN REGION URBENVILLE MANAGEMENT AREA
RIVERS
STATE FOREST: YABBRA
SURVEY REPORT NO: YA1.3/98 COMPARTMENT 286

Surveys Undertaken

Survey Type	Date Undertaken	Time Spent	Undertaken By
Call Playback	9/3/98	0:53 hrs	D. Binns, M. Crowley, K. McCray
Spotlight (walk)	9/3/98	1:02 hrs	M. Crowley, K. McCray
Bat Survey (2 sites)	9-11/3/98		M. Crowley, K. McCray
Koala Traverses (2km)	10/3/98	4:25 hrs total	M. Crowley, K. McCray
Koala Star Traverse	10/3/98	2:15 hrs	K. McCray

Location of surveys shown on attached maps.

Notes: Please note these surveys are only to supplement surveys carried out by R. Heywood et. al. (see report of 8/9/97)

PART D. SURVEY RESULTS

Prepared By: K. McCray

Date: 17/3/98

New Threatened Fauna Detections

Species Name	AMG East	AMGNorth	Date	Observation Type	Observers Name	Survey/ Incidental
<i>K. papuensis</i>	4 43 600	68 25 450	11/3/98	Capture	M. Crowley/K. McCray	Survey
Glossy-black Cockatoo	4 43 400	68 25 100	10/3/98	Seen	K. McCray	Survey
Glossy-black Cockatoo	4 44 100	68 25 150	10/3/98	Seen	M. Crowley/K. McCray	Survey
Masked Owl	4 43 800	68 25 200	10/3/98	Heard	M. Crowley/K. McCray	Incidental

SUMMARY

The results of the database search, threatened flora and fauna traverse and spotlighting, nocturnal callback surveys result in the implementation of the following threatened flora and fauna prescriptions:

- Golden-tipped Bat
- Glossy-black Cockatoo.
- Masked Owl
- Koala High-use area.

PRE-HARVEST FLORA SURVEYS, YABBERA SF, CPTS 196, 199, 286

Methods

Traverse surveys were conducted in accordance with the Survey Protocol on 8-9 July 1997 and 9-10 March 1998. Data sheets for the earlier traverses have been supplied previously. Data sheets for the most recent traverses are attached. A summary of the combined traverse details is as follows:

Cpt 196

Approx. net harvest area:	124 ha
Total length of traverse routes:	3.1 km
Traverse length per 200 ha:	5.0 km
Total net duration of traverse survey:	hours
Survey duration per 200 ha:	hrs

Cpt 199

Approx. net harvest area:	215 ha
Total length of traverse routes:	7.4 km
Traverse length per 200 ha:	6.9 km
Total net duration of traverse survey:	hours
Survey duration per 200 ha:	hrs

Cpt 286

Approx. net harvest area:	192 ha
Total length of traverse routes:	8.0 km
Traverse length per 200 ha:	8.3 km
Total net duration of traverse survey:	14.0 hours
Survey duration per 200 ha:	14.6 hrs

General description

The net harvestable area of cpt 286 is open forest of mostly a mixture of *E. propinqua*, *E. carnea*, *E. siderophloia*, *E. microcorys* and *Corymbia intermedia*. *Allocasuarina torulosa* is usually common as a subcanopy. Understorey varies from grassy with scattered shrubs to dense shrubs. Abundant grasses are *Themeda australis*, *Entolasia stricta*, *Cymbopogon refractus* and *Eremochloa bimaculata*. The most abundant shrub is *Pultenaea villosa*, with patches of *Lantana camara*. *Trochocarpa laurina* is common on lower slopes and in other sheltered microhabitats. *Backhousia myrtifolia* and *Lophostemon confertus* are dominant in narrow strips along more deeply incised gullies.

Threatened flora species and other significant flora features

Tylophora woollsii (TSC Schedule 1)

A substantial population (about 200 mature plants plus many juvenile plants) of what is probably this species was located in cpt 286. As no plants were seen in flower, it is not possible to be certain that it is this species. It may be the closely similar, but much more widespread *Tylophora paniculata*. However, based on subtle vegetative differences, I believe it is sufficiently likely to be *T. woollsii* that it should be managed as such. Plants were found to be strictly confined to creek banks, slopes close to gullies (usually within 10 m) and steep, rocky slopes elsewhere, usually at the edge of stands of *Backhousia myrtifolia*. The known extent of the population is shown on the attached map. This compartment was searched more extensively than usual because of the presence of this species, but it was not found outside

these habitats. I am confident that the mapped extent includes the main population in the net harvest area plus 50m buffer, but there may be additional stands on the steep eastern and southern slopes outside the net harvest area and there may be a few scattered plants elsewhere on stream banks. Plants which could be confidently identified as *Tylophora paniculata* were more widespread in the compartment and occurred mostly in habitats not occupied by *T. woollsii*.

The most effective way to satisfy Conservation Protocol requirements for *T. woollsii* in cpt 286 is to ensure that streamside exclusion zones adequately protect the westerly population (the easterly stand is on a very steep scree slope which is not subject to harvesting). This could be achieved by a minimum 30 m exclusion zone either side of the first order stream in this mapped population, plus extending the buffer on second and third order parts of this stream by 30 m either side (allowing for the generally steeper slopes on higher order parts of this stream, where the species may occur up to 30 m from the stream bank). Any scattered additional plants (which may have been overlooked during survey) along this stream outside the mapped population are most likely to be included in standard streamside exclusions. This would ensure that all plants were excluded from harvesting with a minimum buffer of 20 m, and avoid the need to locate all individuals for application of exclusion and modified harvesting buffers.

Plectranthus species

A possibly significant species of *Plectranthus*, related to *P. surculosus*, occurs in cpt 286, confined to rocky slopes and rock outcrops near creeks. This genus is currently under revision, with several undescribed species being recognised, and it is not possible to adequately assess the significance of these taxa until the review is more advanced. The population in cpt 286 is included within the exclusion zone for *Tylophora woollsii* suggested above.

Cynanchum elegans (TSC Schedule 1)

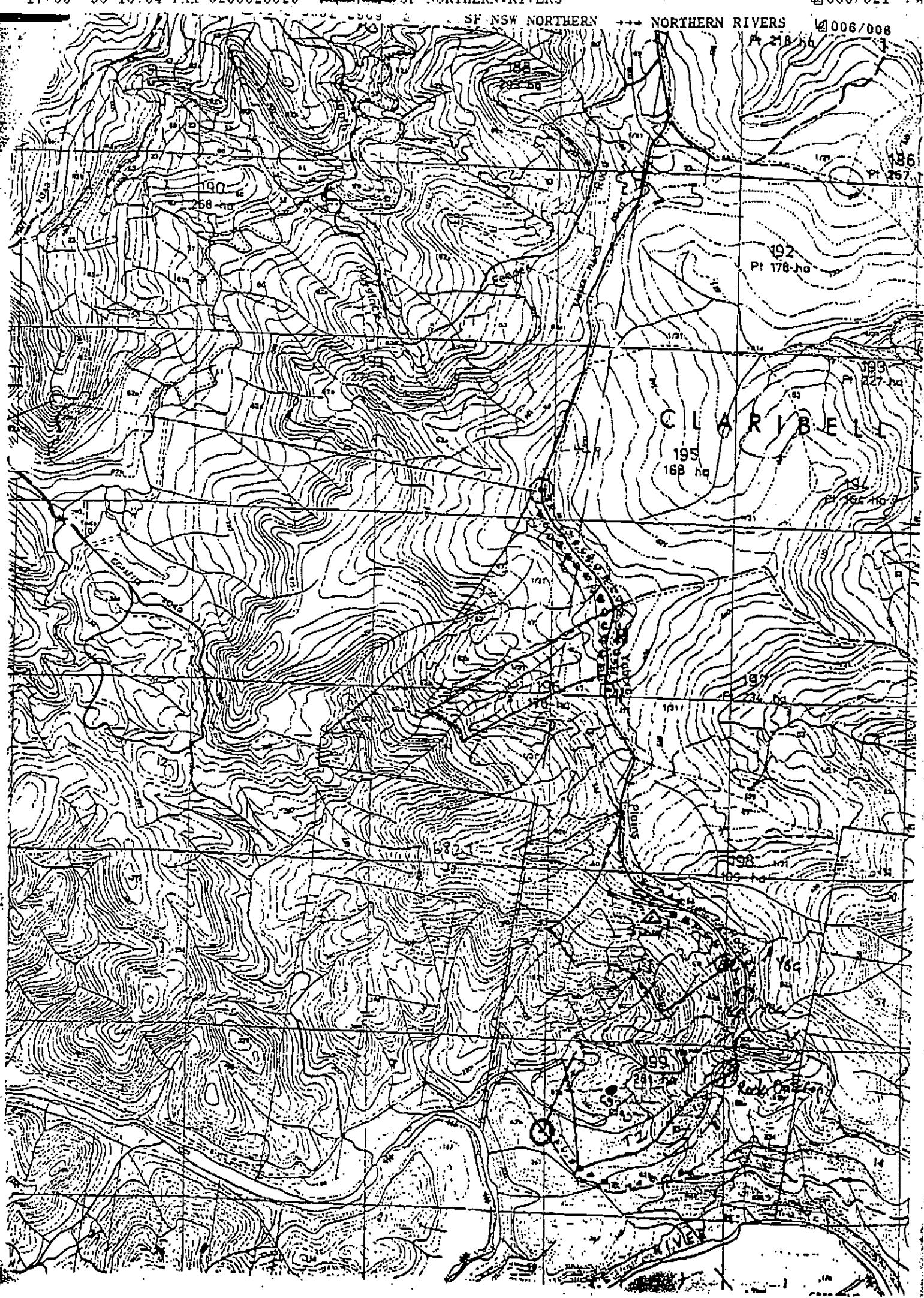
A single small stand occupying less than 50 m² was located in cpt 199 (shown on the attached map). About 12 main stems were present, but it is likely that these represent fewer separate individuals. It could even be a single individual with multiple root suckers, as has been observed elsewhere. Under the provision of the Conservation Protocol, this species requires a 10 m harvesting exclusion plus 10 m modified harvesting (<50% removal) perimeter zone. The stand has been flagged with double pink tape. The occurrence of this species in open forest on a ridge crest is unusual. It is most likely an outlier of a main population elsewhere in the vicinity, in a more typical habitat (rainforest margins). As the usual habitat is very limited in this compartment, and since extensive searches failed to find a substantial population, it is likely that any such population is outside the compartment.

Doug Binns
Flora Ecologist
11 March 1998

SF NSW NORTHERN
SUSPENSION

→ NORTHERN RIVERS

4008/008

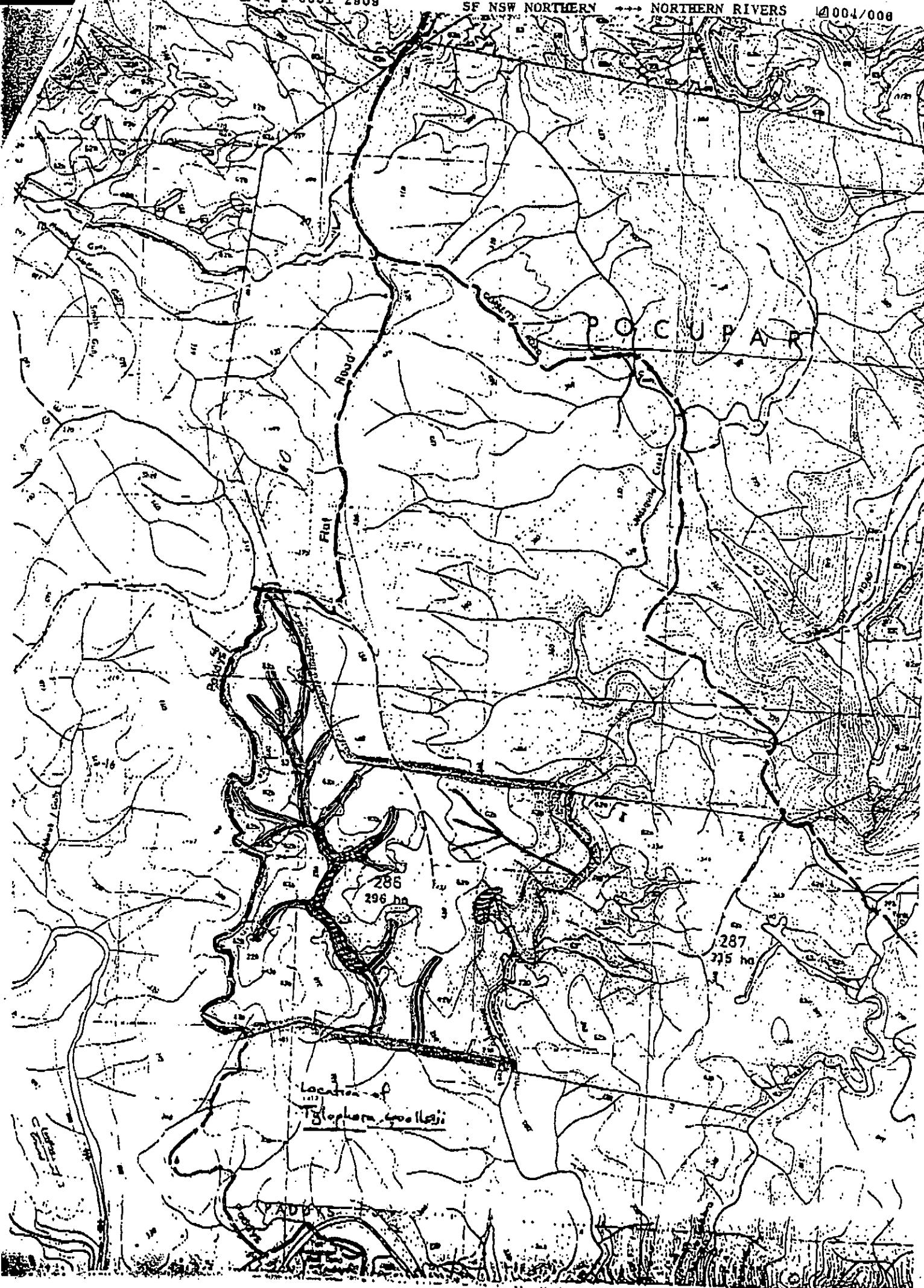


WV1 6 0001 2908

SF NSW NORTHERN

NORTHERN RIVERS

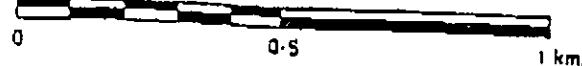
4004/008





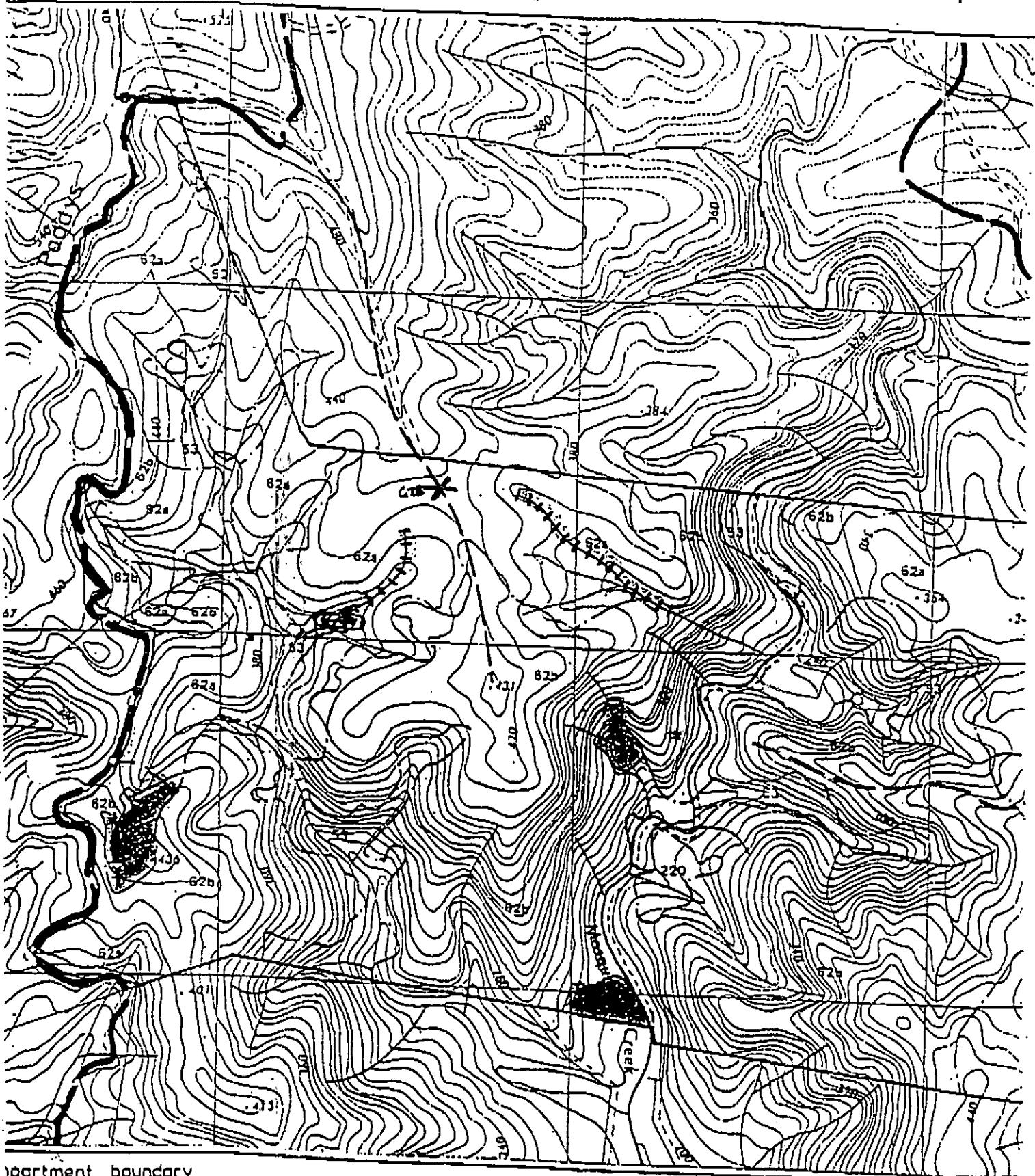
Compartment 286

Scale — 1:15 000



CU/394

Contour interval 10 m

1
G N

Compartment boundary
 Strips
 Selection strips
 ds, dump site
 weather dumps shown in red

Special emphasis

GTB X - GOLDEN-TIPPED BAT

IMPLEMENT GTB PRESCRIPTION (40m BUFFER)

KONA HIGH USE SECTION (50m BUFFER)

TWO POINTS MARKED IN FIELD (PINK TAPE)

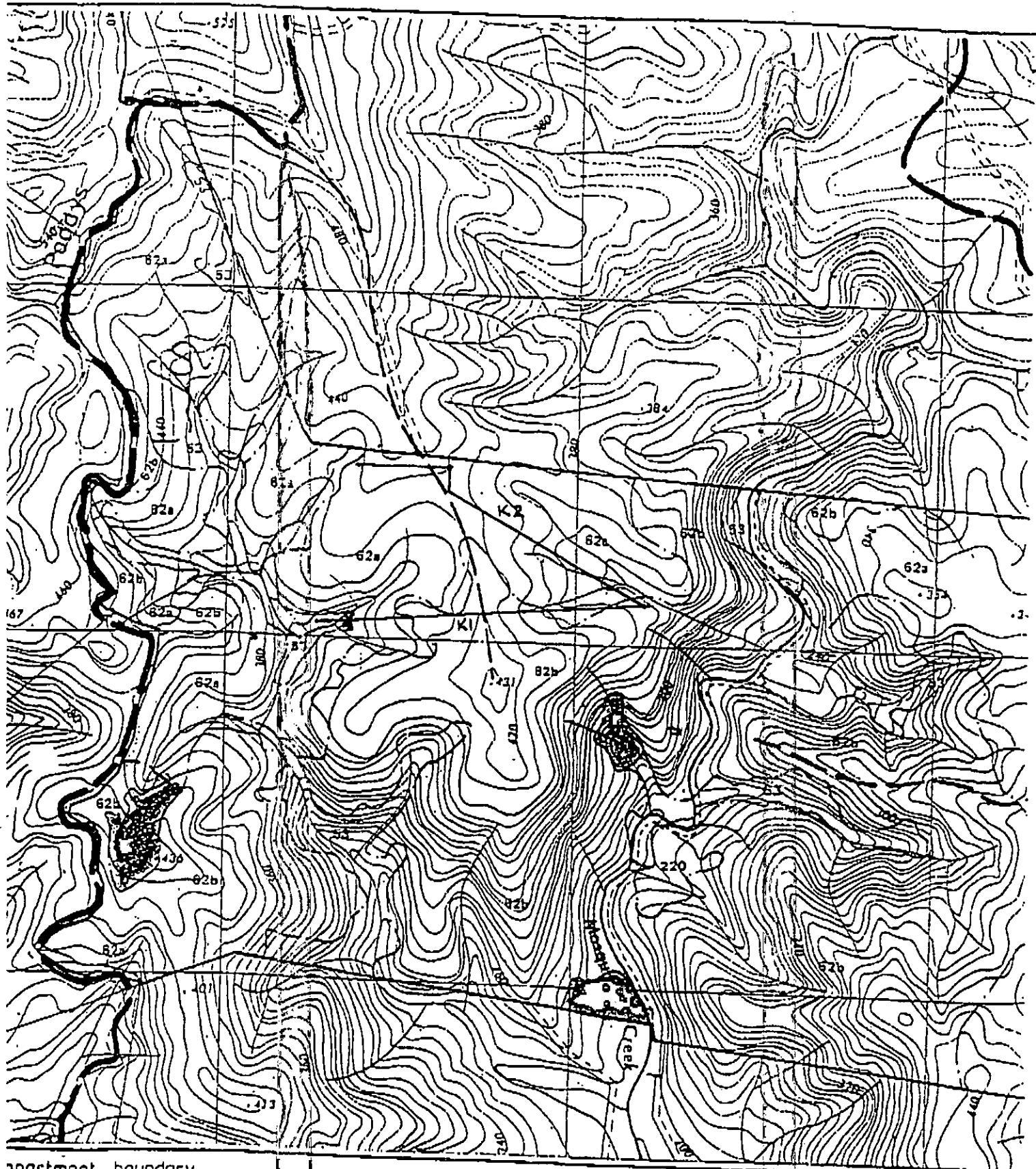
Compartment 286

Scale — 1:15 000

CU/394

Contour interval 10 m

G N



apartment boundary
er strips
tection strips
ids, dump site
t weather dumps shown in red

Special emphasis

KOALA TRANSECT

STAR TRANSECT

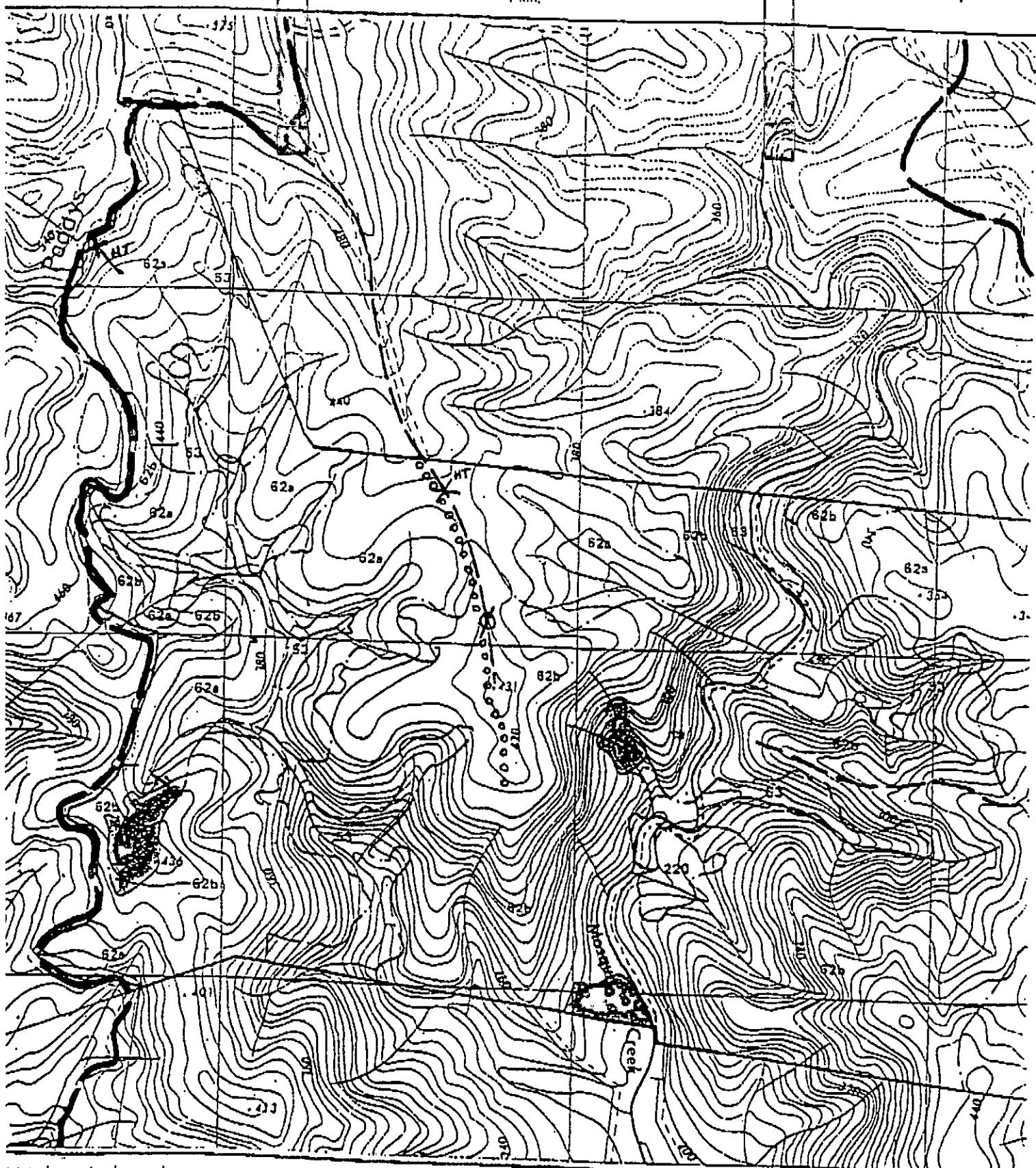
Compartment 286

Scale 1:15 000

0 0.5 1 km.

CU/394

Contour interval 10m

1
G N

Compartment boundary

Marker strips

Detection strips

Ids, dump site

Weather dumps shown in red

Special emphasis

X HT - HARP TRAP SITE

oooo - SPOTLIGHT TRANSECT (WALK)

o - PLAYBACK SITE



SPOTLIGHT TRANSECT - NORTHERN RIVERS REGION

STATE FOREST	VERNA	M.A.	1/2 MILE	COMPT.	28	
OBSERVER(S)	M. COOK	DATE FROM	9/3/93	REGION		
	K. MCGARRY	DATE TO	9/3/93	CODE	461	
SURVEY NAME	NUMBER OF TRANSECTS					
DETECTION METHOD(S)	<input checked="" type="checkbox"/> vehicular transect <input checked="" type="checkbox"/> foot transect					
	Transect No(s) Transect No(s). 2					
BROAD HABITAT TYPE	Rainforest	Sclerophyll	Woodland			
	<input checked="" type="checkbox"/> Subtropical <input type="checkbox"/> Dry <input type="checkbox"/> Temperate	<input type="checkbox"/> Wet Sclerophyll <input checked="" type="checkbox"/> Dry Sclerophyll <input type="checkbox"/> Swamp Sclerophyll	<input type="checkbox"/> Shrub Woodland <input type="checkbox"/> Heath Woodland <input type="checkbox"/> Tall Woodland			
FOREST TYPE NUMBER(S)						
CENSUS 1 - TRANSECT 1	Location Description FERRET ON THE (AS DOKE 3/7/97)					
Total Distance	1.0 K	From GATE AND PARK IN CREEK SIDE				
Species Targeted	ALL					
TIME	Start Time 10:08 am	Finish Time 11:10 am	Total Travel Time			
AMG Start	Easting 443500	Finish	Easting 443800			
COORDINATES	Northing 6725200		Northing 6724500			
WEATHER	Temperature 19.5°C	Relative Humidity 80%	Time 11:10 am / pm			
Wind	<input checked="" type="checkbox"/> calm 17°C <input checked="" type="checkbox"/> light - leaves rustle	<input type="checkbox"/> moderate - moves branches <input type="checkbox"/> strong - impedes progress				
Rain	<input type="checkbox"/> rain during survey <input checked="" type="checkbox"/> evidence of rain in last 24 hrs	<input type="checkbox"/> no evidence of rain in the last 24 hrs				
Night light	<input type="checkbox"/> very dark - no moon+cloud <input checked="" type="checkbox"/> dark - quarter moon or moon with heavy cloud	<input type="checkbox"/> detail seen - moon and clear sky <input type="checkbox"/> bright - half moon or more and no cloud				
CENSUS 2- TRANSECT 2	Location Description					
Total Distance						
Species Targeted						
TIME	Start Time	Finish Time	Total Travel Time			
AMG Start	Easting	Finish	Easting			
COORDINATES	Northing		Northing			
WEATHER	Temperature	Relative Humidity	Time am / pm			
Wind	<input type="checkbox"/> calm <input type="checkbox"/> light - leaves rustle	<input type="checkbox"/> moderate - moves branches <input type="checkbox"/> strong - impedes progress				
Rain	<input type="checkbox"/> rain during survey <input type="checkbox"/> evidence of rain in last 24 hrs	<input type="checkbox"/> no evidence of rain in the last 24 hrs				
Night light	<input type="checkbox"/> very dark - no moon+cloud <input type="checkbox"/> dark - quarter moon or moon with heavy cloud	<input type="checkbox"/> detail seen - moon and clear sky <input type="checkbox"/> bright - half moon or more and no cloud				
OBSERVATIONS						
DIST.	TRANS. NO.	SPECIES	OBS. TYPE	DIST. from TRANS	Count	NOTES (AMGs for S1&S2 spp. note if count is an estimate)
500	2	SUGAR GLIDER	H	100	1	± 90°
		GREY-HAIRED FLYING FOX	H			HEARD SEVERAL TIMES

PAGE 1 of 1. SKETCH MAP OVERLEAF? YES / NO SHOWN ON SPOTLIGHT MAP.

V. GOOD NIGHT FOR SPOTLIGHTING, BUT SURPRISINGLY QUIET



CALL PLAYBACK - NORTHERN RIVERS REGION

PAGE ____ of ____ . SKETCH MAP OVERLEAF? YES / NO



BAT SURVEY - NORTHERN RIVERS REGION

STATE FOREST	YABBA	M.A. VERIFIED	COMPT.	286		
OBSERVER(S)	P. McMAHON M. CRIBBLE	DATE FROM 4/3/98 DATE TO 11/3/98	REGION NRR CODE 461			
SURVEY NAME	NO. OF CENSUS NIGHTS					
DETECTION METHOD(S)	<input checked="" type="checkbox"/> sharp trap <input type="checkbox"/> bat sonar	<input type="checkbox"/> trip lines <input type="checkbox"/> mist net	<input type="checkbox"/> observed <input type="checkbox"/> other			
AMG	Easting 443 625	SPECIES TARGETED				
COORDINATES	Northing 68 25 450					
BROAD HABITAT TYPE	Rainforest	Sclerophyll	Woodland			
	<input type="checkbox"/> Subtropical <input type="checkbox"/> Dry <input type="checkbox"/> Temperate	<input type="checkbox"/> Wet Sclerophyll <input checked="" type="checkbox"/> Dry Sclerophyll <input type="checkbox"/> Swamp Sclerophyll	<input type="checkbox"/> Shrub Woodland <input type="checkbox"/> Heath Woodland <input type="checkbox"/> Tall Woodland			
FOREST TYPE NUMBER(S)	62a					
LOCATION DESCRIPTION	100m SOUTHEAST OF SPINDLER HAT IN 2N TRACT IN GOOD FLYWALL ON SADDLE					
WEATHER (census = 1 night)	Census 1 Date 9/3	Census 2 10/3	Census 3	Census 4		
Temperature	19.5°C	17.5°C				
Relative Humidity	80%	90%				
Time Measurements Taken	11.10	14.30				
Wind [(1) calm (2) light (3) moderate (4) strong]	2	1				
Rain [(1) during survey (2) evidence of in last 24 hrs (3) no evidence of in last 24 hrs]	2	3				
Night light [(1) very dark (2) dark (3) detail seen (4) bright]	2	3				
CAPTURE / SAMPLE DETAILS						
DATE	SPECIES	Sex	Weight (gms)	Farm Length	Field No.	Compulsory notes (age, breeding, appearance)
10/3/98	Vesperalalus sp.	F	4.25	32.06		NON LACTATING
11/3/98	Nyctophilus geoffroyi	M	6.5g	37.5		
11/3/98	Kerivoulina mvensis	F	7.0	37.0		NON LACTATING

PAGE 1 of 2 SKETCH MAP OVERLEAF? YES NO



BAT SURVEY - NORTHERN RIVERS REGION

STATE FOREST	VANZIA	M.A. VILLE	COMPT.	286			
OBSERVER(S)	M. CALDWELL K. McCULLAGH	DATE FROM 9/3/98	REGION NR2				
SURVEY NAME		DATE TO 11/3/98	CODE 461				
DETECTION METHOD(S)	<input checked="" type="checkbox"/> sharp trap <input type="checkbox"/> bat sonar	<input type="checkbox"/> trip lines <input type="checkbox"/> mist net	<input type="checkbox"/> observed <input type="checkbox"/> other				
AMG COORDINATES	Easting 442630 Northing 6826130	SPECIES TARGETED					
BROAD HABITAT TYPE	Rainforest <input type="checkbox"/> Subtropical <input type="checkbox"/> Dry <input type="checkbox"/> Temperate	Sclerophyll <input type="checkbox"/> Wet Sclerophyll <input checked="" type="checkbox"/> Dry Sclerophyll <input type="checkbox"/> Swamp Sclerophyll	Woodland <input type="checkbox"/> Shrub Woodland <input type="checkbox"/> Heath Woodland <input type="checkbox"/> Tall Woodland				
FOREST TYPE NUMBER(S)	62						
LOCATION DESCRIPTION	IN SMALL CULLEY APPROXIMATELY 50m FROM PADDY FLAT ROAD, EASY ACCESS WITH A RELATIVELY DENSE FOREST						
WEATHER (census = 1 night)	Census 1	Census 2	Census 3	Census 4	Census 5	Census 6	Census 7
Date	9/3	10/3					
Temperature	19.5°	17.5°					
Relative Humidity	80%	90%					
Time Measurements Taken	11:10	10:30					
Wind [(1) calm (2) light (3) moderate (4) strong]	2	1					
Rain [(1) during survey (2) evidence of in last 24 hrs (3) no evidence of in last 24 hrs]	2	3	:				
Night light [(1) very dark (2) dark (3) detail seen (4) bright]	2	3					
CAPTURE / SAMPLE DETAILS							
DATE	SPECIES	Sex	Weight (gms)	Farm Length	Field No.	Compulsory notes (age, breeding, appearance)	
10/3/98						NIL CAPTURES	
11/3/98						NIL CAPTURES	

PAGE 1 of 2 SKETCH MAP OVERLEAF? YES / NO

BAT

TRAVERSE SURVEY / KOALA TRANSECT : NORTHERN RVS REGION

NO. of

TRAVERSE SURVEY (CONTINUED) NO. _____ OF _____					KOALA SURVEY (CONTINUED)				
OBSERVER(S) M. GRIMES K. MCCUAH		DATE 10/3/93			5 TREES PER 50M 1KM PER 100HA				
THREATENED FLORA - OBSERVATIONS									
SPECIES SEARCHED FOR					TREE SPECIES	CBH (approx)	SCATS or OTHER		
TRANSECT DISTANCE	FLORA SPECIES	NUMBER	AREA SIZE	SITE DESCRIPTION & SITE DISTURBANCE (7)	MAP/AMG NOTED?				
						51	GC	20-40	NIL
						52	GC	20-40	"
						53	1BK	20-40	"
						54	GC	20-40	"
						55	1C	20-40	"
						56	GC	20-40	"
						57	GC	20-40	"
						58	GC	20-40	"
						59	GC	20-40	"
						60	GC	0-30	"
						61	GC	0-20	"
						62	1BK	20-40	"
						63	GC	20-40	"
						64	GC	0-20	"
						65	GC	20-40	"
						66	BLND	20-40	"
						67	GC	0-20	"
						68	GC	20-40	"
						69	GC	20-40	"
						70	GC	20-40	"
						71	BLND	20-40	"
						72	GC	20-40	"
						73	WHMA	80-100	"
						74	1BK	10-20	"
						75	1C	20-40	"
						76	GC	10-20	"
						77	WHMA	10-20	"
						78	GC	20-40	"
						79	GC	10-20	"
						80	GC	20-40	"
						81	GC	20-40	"
						82	WHMA	20-40	"
						83	GC	20-40	"
						84	WHMA	20-40	"
						85	1BK	100-120	"
						86	WHMA	60-80	"
						87	GC	40-60	"
						88	WHMA	60-80	"
						89	1BK	80-100	"
						90	1BK	40-60	"
						91	WHMA	40-60	"
						92	GC	20-40	"
						93	1BK	20-40	"
						94	GC	20-40	"
						95	WHMA	20-40	"
						96	WHMA	20-40	"
						97	WHMA	40-60	"
						98	WHMA	20-40	"
						99	OAK	20-40	"
						100	WHMA	40-60	"

LAST SHEET? (YES) / NO	TRAVERSE FINISH AMG CO-ORDINATES	EASTING NORTHING	KOALA FINISH CO-ORDINATES	EASTING 444.250 NORTHING 6825.050
TOTAL TIME 2:10 hrs				

PAGE 2 OF 2

TRAVERSE/KOALA

TRAVERSE SURVEY / KOALA TRANSECT - NORTHERN RVS REGION

NO. of

STATE FOREST		YABORRA		MA JCB-367111-E	COMPT	286	KOALA SURVEY		
OBSERVER(S)		M. CECIL & J. K. MCCRAY		DATE FROM 19/3/93	REGION	N.G.R.	5 TREES PER 50 M 1KM PER 100HA		
START TIME		3.00		DATE TO 19/3/93	CODE	461			
SURVEY NAME		K TRANSECT 2		START	EASTING		START	EASTING	
					NORTHING		AT 300° NORTHING	444 250	
THREATENED FLORA OBSERVATIONS									
SPECIES SEARCHED FOR									
TRANSECT DISTANCE	FLORA SPECIES	NUMBER	AREA SIZE	SITE DESCRIPTION & SITE DISTURBANCE (?)		MAP/AMG NOTED?	TREE SPECIES	DBH approx	SCATS or OTHER
	NIL						1 GC	20-40	NIL
							2 WH MA	20-40	"
							3 WH MA	20-40	"
							4 GC	20-40	"
							5 WH MA	20-40	"
							6 WH MA	20-40	"
							7 GC	40-60	"
							8 GC	10-20	"
							9 GC	20-40	"
							10 GG	20-40	- 100M
							11 WH MA	20-40	"
							12 GG	20-40	"
							13 GG	20-40	"
							14 GC	40-60	"
							15 GC	20-40	"
							16 GC	40-60	"
							17 GC	20-40	"
							18 GC	40-60	"
							19 GC	20-40	"
							20 BK	20-40	- 200M
							21 GC	20-40	"
							22 BK	60-80	"
							23 GC	20-40	"
							24 GC	40-60	"
							25 GC	20-40	"
							26 GC	60-80	"
							27 WH MA	40-60	"
							28 GG	20-40	"
							29 GG	60-80	"
							30 GG	20-40	- 300M
							31 BK	20-40	"
							32 GC	20-40	"
							33 BLWD	60-80	"
							34 WH MA	40-60	"
							35 WH MA	20-40	"
							36 WH MA	20-40	"
							37 GC	20-40	"
							38 GC	20-40	"
							39 WH MA	10-20	"
							40 GC	20-40	- 400M
							41 GC	20-40	"
							42 GC	20-40	"
							43 GC	40-60	"
							44 GC	40-60	"
							45 WH MA	20-40	"
							46 GC	20-40	"
							47 GC	20-40	"
							48 WH MA	10-20	"
							49 GC	20-40	"
							50 GC	60-80	- 500M
# THREATENED SPECIES FEATURES									
• BIRD SPP		• BIRD SPP		• CAVES, TUNNELS & DISUSED MINES					
• TIGER QUOLL LATRINE AND DEN SITES		• DISTINCTIVE SCATS (TIQU, KOAL, & BRUSH-TAILED ROCK WALLABY)		• PERMANENT SOAKS AND SEEPAGES					
• NESTS, DENS & ROOSTS OF LARGE BIRDS, (RAPTORS & OWLS) BATS, & HOLLOW DEPENDENT SPECIES		• YEBG 'V-NOTCH' TREES		• OWL PELLETS (& WHITE WASH)					
• GLOSSY BLACK COCKATOO, ALBERTS LYREBIRD & BUSH THICK-KNEE NESTS									
GENERAL COMMENTS & ARCHAEOLOGICAL ARTEFACTS		RECORD FEATURES: EG. UNMAPPED CHANGE IN STRATA OR FOREST TYPE, ROCKY OUTCROPS ETC							
TRANSECT DISTANCE	OBSERVATION OF.....		MAP/AMG NOTED?						
	NIL								

TRAVERSE SURVEY (CONTINUED) NO. _____ OF _____						KOALA SURVEY (CONTINUED)		
OBSERVER(S) M. C. WILBY M. G. GAY		DATE 10/3/78				5 TREES PER 50 M		1KM PER 100HA
THREATENED FLORA - OBSERVATIONS								
SPECIES SEARCHED FOR						TREE SPECIES	DBH (approx)	SCATS or OTHER
TRANSECT DISTANCE	FLORA SPECIES	NUMBER	AREA SIZE	SITE DESCRIPTION & SITE DISTURBANCE (?)	MAP/AMG NOTED?	51	20-40	"
						52	WHMA	40-60
						53	GG	40-50
						54	TWD	40-60
						55	TWD	40-50
						56	GG	40-60
						57	TWD	20-40
						58	WHMA	20-40
						59	TWD	20-40
						60	TWD	40-60
						61	GG	40-60
						62	IBK	20-40
						63	WHMA	30-50
						64	STBK	40-60
						65	GG	40-60
						66	GG	60-80
						67	GG	40-60
						68	GG	60-80
						69	STBK	40-60
						70	GG	30-100
						71	GG	20-40
						72	OAK	20-40
						73	GG	30-100
						74	GG	40-60
						75	WHMA	30-100
						76	GG	10-20
						77	GG	20-40
						78	IBK	60-80
						79	WHMA	30-100
						80	WHMA	20-40
						81	GG	20-100
						82	GG	20-40
						83	GG	100-120
						84	WHMA	20-40
						85	IBK	20-40
						86	GG	10-20
						87	GG	20-40
						88	STBK	20-40
						89	STBK	20-40
						90	STBK	20-40
						91	TWD	20-40
						92	OAK	10-20
						93	WHMA	60-80
						94	TWD	20-40
						95	IBK	40-60
						96	GG	20-40
						97	WHMA	60-80
						98	TWD	20-40
						99	GG	20-40

LAST SHEET? YES / NO	TRAVERSE FINISH AMG CO-ORDINATES	EASTING NORTHING	KOALA FINISH CO-ORDINATES	EASTING 4 43 350 NORTHING 2 15 500
TOTAL TIME 2.15				

TRAVERSE SURVEY / KOALA TRANSECT - NORTHERN RVS REGION

STATE FOREST YARRA		MA JKF-11/11/93	COMPT 734	NO. of				
OBSERVER(S) K. MCKAY		DATE FROM 10/11/93	REGION NNR	KOALA SURVEY				
START TIME 5.30		DATE TO 10/11/93	CODE 461	5 TREES PER 50 M 1KM PER 100HA				
SURVEY NAME STAR TRAVERSE		START EASTING 443320		START	EASTING			
		CENTRE NORTHING 69 25 05.0	NORTHING					
THREATENED FLORA OBSERVATIONS								
SPECIES SEARCHED FOR								
TRANSECT DISTANCE	FLORA SPECIES	NUMBER	AREA SIZE	SITE DESCRIPTION & SITE DISTURBANCE (7)	MAP/AMG NOTED?	TREE SPECIES	DBH approx	SCATS or OTHER
						1 GL	10-20	NIL
						2 BK	20-40	"
						3 GG	40-60	"
						4 TWD	10-20	"
						5 OAK	10-20	"
						6 GG	20-40	"
						7 GG	20-40	"
						8 BK	20-40	"
						9 BK	20-40	"
10 GG	10-20	" 100M						
11								
12								
13								
14								
15								
16	GG	20-40	NIL					
17	GR	20-40	NIL					
18	OAK	10-20	"					
19	WHIMA	20-40	"					
20	GG	10-20	" 100M					
21	TWD	20-40	"					
22	BK	20-40	"					
23	GG	20-40	"					
24	GG	40-60	"					
25	GG	40-60	"					
26								
27								
28								
29								
30					100M			
31	TWD	20-40	NIL					
32	GG	40-60	"					
33	BK	40-60	"					
34	GG	40-60	"					
35	GG	40-60	"					
36	OAK	20-40	"					
37	GG	20-40	" 10-40					
38	GG	20-40	" 10-40					
39	BBX	40-60	"					
40	BK	20-40	" 400M					
41								
42								
43								
44								
45								
46	WHIMA	10-20	NIL					
47	BK	20-40	"					
48	GG	40-60	" 10-40					
49	BBX	20-40	"					
50	GG	20-40	" 500M					
#THREATENED SPECIES FEATURES								
<ul style="list-style-type: none"> BIRD SPP TIGER QUOLL LATRINE AND DEN SITES NESTS, DENS & ROOSTS OF LARGE BIRDS, (RAPTORS & OWLS) BATS, & HOLLOW DEPENDENT SPECIES GLOSSY BLACK COCKATOO, ALBERTS LYREBIRD & BUSH THICK-KNEE NESTS 			<ul style="list-style-type: none"> BIRD SPP CAVES, TUNNELS & DISUSED MINES DISTINCTIVE SCATS (MOU, KOAL, & BRUSH-TAILED ROCK WALLABY) PERMANENT SOAKS AND SEEPAGES YEBG V-NOTCH TREES OWL PELLETS (& WHITE WASH) 					
GENERAL COMMENTS &		RECORD FEATURES: EG. UNMAPPED CHANGE IN STRATA OR FOREST TYPE, ROCKY OUTCROPS ETC						
ARCHAEOLOGICAL ARTEFACTS		TRANSECT DISTANCE						
OBSERVATION OF		MAP/AMG NOTED?						
Nil								

PAGE 1 OF 2

TRAVERSE/KOALA

RAVERSE SURVEY (CONTINUED) NO. _____ OF _____					KOALA SURVEY (CONTINUED)				
OBSERVER(S) K.M.C. 24/1		DATE 10/3/93			5 TREES PER 50M 1KM PER 100HA				
THREATENED FLORA - OBSERVATIONS					SPECIES SEARCHED FOR				
TRANSECT DISTANCE	FLORA SPECIES	NUMBER	AREA SIZE	SITE DESCRIPTION & SITE DISTURBANCE (?)	MAP/AMG NOTED?	TREE SPECIES	DBH (approx)	SCATS or OTHER	
						51	GG	10-20	NIL
						52	GC	60-70	"
						53	IBK	20-40	"
						54	WHMA	20-40	"
						55	TWD	40-60	"
						56			350M
						57			
						58			
						59			
						60			600M
						61	GG	10-20	NIL
						62	BBX	20-40	"
						63	GG	20-40	"
						64	GG	20-40	"
						65	TWD	10-20	"
						66	GG	20-40	"
						67	WHMA	20-100	"
						68	TWD	20-40	"
						69	WHMA	20-40	"
						70	GG	20-40	"
						71	IBK	20-40	"
						72			
						73			
						74			
						75	FROM BR SLAT TREE		
						76	WHMA	20-40	NIL
						77	WHMA	60-80	"
						78	TWD	20-40	"
						79	GG	20-40	"
						80	GG	20-40	"
						81	GG	20-40	"
						82	GR	10-20	"
						83	WHMA	20-40	"
						84	WHMA	20-40	"
						85	TWD	20-40	"
						86			
						87			
						88			
						89			
						90			900M
						91	IBK	40-60	NIL
						92	GG	80-100	"
						93	GG	20-40	"
						94	BBX	20-40	"
						95	IBK	20-40	"
						96	GG	10-20	"
						97	WHMA	20-40	"
						98	IBK	20-40	"
						99	TWD	40-60	"
						100	TWD	40-60	"
									1000M
LAST SHEET? YES / NO		TRaverse FINISH AMG CO-ORDINATES	EASTING NORTHING	KOALA FINISH COORDINATES	EASTING NORTHING				
TOTAL TIME 2.15									

Compartment 286

Scale — 1:15,000

QU 394

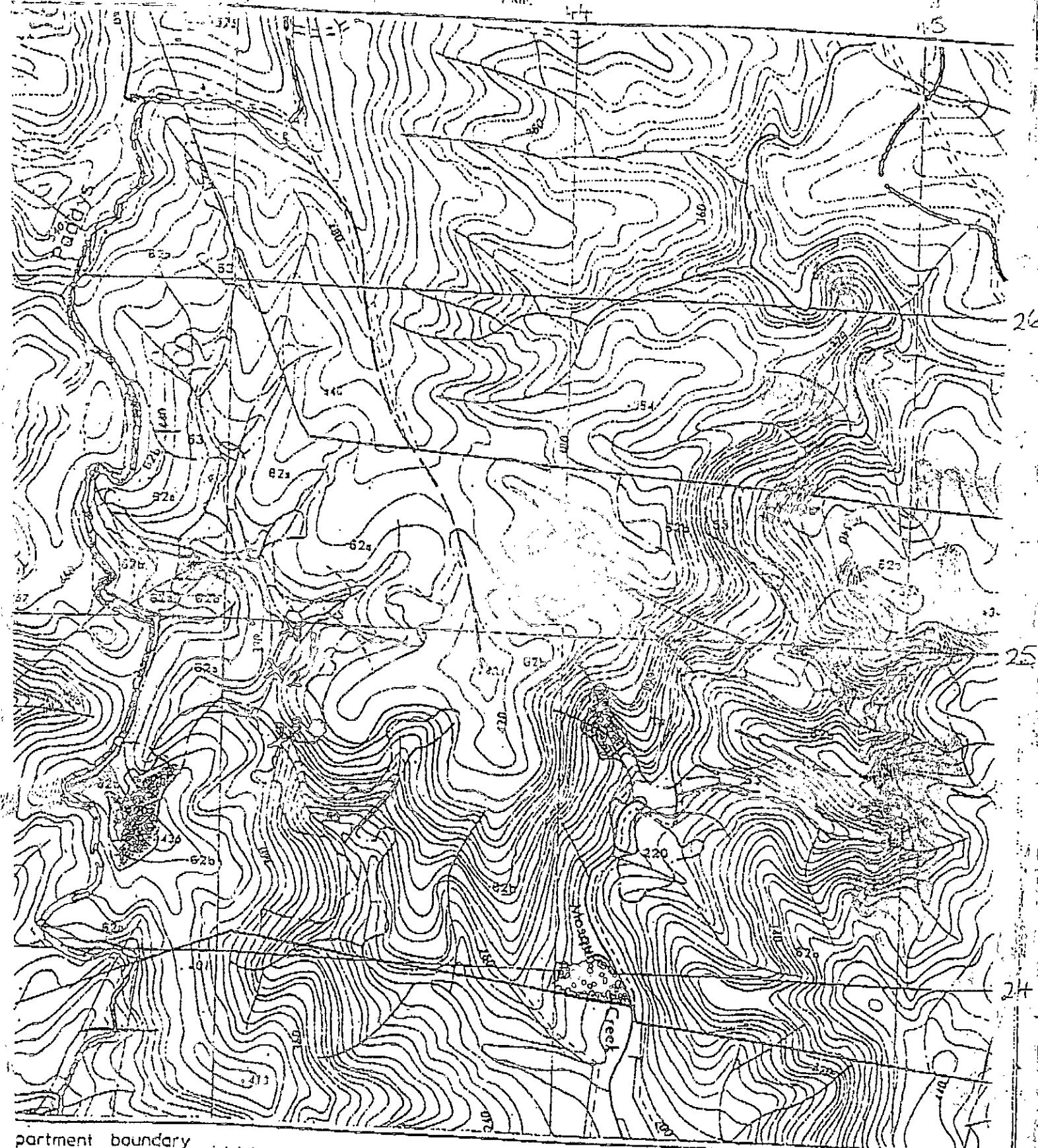
1.2 0.5

1 Km.

Contour interval 10m

G N

45



partment boundary
r strips
action strips
ls. dump site
weather dumps shown in red

Special emphasis

X FROG CALL PLAYBACK SITE

O MASKED OWL DETECTION

FACSIMILE TRANSMISSION

To NEFA

Attention GEORGIA BEYER Date 27/3/98

Your Fax 224737 Our Fax (0266) 625826

From MARK CARROW Phone (0266) 624499

No of Pages (including this cover page) = 3



Message

OLD GROWTH ASSESSMENT

CPTS 196 & 199 YABERA S/F

YOUR FAX OF 27/3/98

State Forests of
New South Wales

Northern Rivers Region
PO Box 688
Casino NSW 2470

GEORGIA

FOLLOWING IS APPENDIX 5 TO THE DRAFT PLAN
YOU RECEIVED (WHICH SHOULD HAVE BEEN INCLUDED IN
YOUR COPY). THIS IS THE OLD GROWTH PRO FORMA
AND MAP SHOWING PLOT LOCATIONS.

IF YOU ARE AFTER OTHER DOCUMENTATION PLEASE CALL

REGARDS

MC

APPENDIX 3

Sheet2

OLD GROWTH PROFORMA			STATE FOREST NO.		394	COMPARTMENT		199		
Assessor:	K Petty , P Maxwell	Date:	12/14/897		plot 0.5 ha, 40 m radius					
	average diameter	Number of Stumps per hectare			HA		HA			
Plot No.	3 large tre	Pre 1960	Threshold	%	Post 1960	Threshold	%	Total %	OGF	COMMENTS
Dry Forest	1	60	0	9	0	5	0	0	YES	very rocky,poor stand, SPG, GIB
	2	67	0	9	0	5	0	0	YES	Rocky, some stumps close to road
	3	55	0	9	0	22	5	440	NO	T 74, fire, reasonable stand
	4	80	2	9	22	18	5	360	NO	Relatively steep, T 74
	5	62	6	9	67	18	5	360	NO	15-17 degrees, T 74, road cutting
	6	64	0	9	0	4	5	80	YES	Open ridge, 8-10 degrees, Fire, 20m3/ha commercial
	7	48	0	9	0	0	5	0	YES	T 74, small trees, fire, 12 degrees.
	8	65	0	9	0	0	5	0	YES	steep narrow ridge, T74,fire
	9	90	0	9	0	8	5	160	NO	Bellbirds-lantana,T 62, Road, disturbance, fire,TSI
	10	47	0	9	0	0	5	0	YES	Open grassy,steep edge, non commercial
	11	48	0	9	0	0	5	0	YES	T 74, snig track, 15 degrees+, fire
	12	68	0	9	0	0	5	0	YES	Good commercial SPG, 15+ degrees
	13	83	0	9	0	0	5	0	YES	T 74, side slope 17+ degrees, lantana

Tallying stumps which are > half diameter of the average of the 3 largest diameter trees within the forest stands

Note : Compartment typing 62 is incorrect, should be type 74- spotted gum,grey iron bark/grey gum.
 Areas surveyed as old growth have reasonable volumes of merchantable spotted gum, grey iron bark and grey gum.
 It appears past logging concentrated on the lower slopes where extraction was easier.
 A substantial volume of harvestable durable species is represented in areas surveyed plots 6,7,8,11,12,13.

3D
GROWTH
RESULTS.

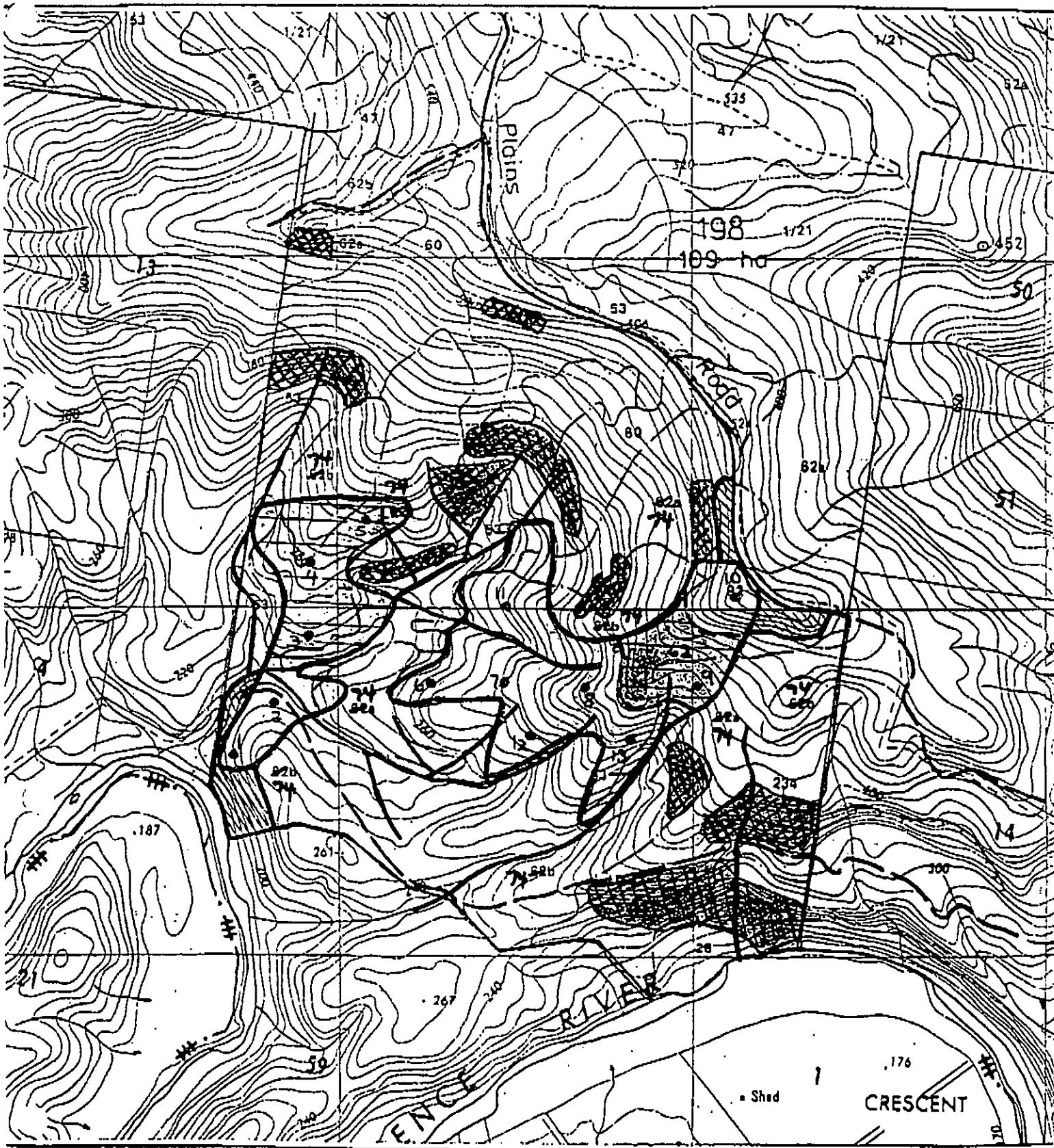
Compartment 199

Scale — 1 : 15 000

CU / 394

Contour interval 10 cm

1
G N



Compartment boundary

Special emphasis

Filter strips

OLD GROWTH - EXCLUDED FROM LOGGING

Protection strips slopes > 30°

AVAILABLE FOR HARVESTING

Roads, dump site



Wet weather dumps shown in red



Additional areas O/G - observed in field. SF

Table 2. Results of scat analysis

Scat	Dist.	Location	Depositor	Prev Species
1	00m	Cnt 196. Yabba Plains Rd.	? Dog	Feathers
2	150m	Cnt 196. Yabba Plains Rd.	Dog	<i>Thyligale thetis</i>
3	200m	Cnt 196. Yabba Plains Rd.	Dog	<i>T. thetis</i>
4	300m	Cnt 196. Yabba Plains Rd.	Dog	? <i>T. thetis</i>
5	350m	Cnt 196. Yabba Plains Rd.	? Fox	<i>Rattus rattus</i>
6	500m	Cnt 196. Yabba Plains Rd.	Dog	Dog grooming + bone fragments
7	700m	Cnt 196. Yabba Plains Rd.	Dog	Feathers
8	700m	Cnt 196. Yabba Plains Rd.	Dog	Dog grooming + feather
9	1km	Cnt 196. Yabba Plains Rd.	Dog	<i>Trichosurus sp.</i>
10	200m	Cnt 199 Lower Section F/T	Dog	<i>Perameles nasuta</i>
11	400m	Cnt 199 Lower Section F/T	Dog	<i>Tachyglossus aculeatus</i> + ? <i>T. thetis</i>
12	850m	Cnt 199 Lower Section F/T	? Fox/S-T Quoll	<i>Rattus lutreolus</i> + Bandicoot trace

Table 3: Results of spotlight surveys in Cpt's 196, 199 and 286.

Cpt No.	Date	Start	Finish	Species Detected	Obs.	No.
196	15/7/97	7.20	8.30	<i>Petaurus australis</i>	W	1
196	15/7/97	7.20	8.30	<i>Pseudochirus peregrinus</i>	O	1
196	15/7/97	7.20	8.30	<i>Petauroides volans</i>	O	2
196	15/7/97	7.20	8.30	<i>Ninox novaeseelandiae</i>	O	1
196	15/7/97	7.20	8.30	<i>Petaurus breviceps</i>	W	1
196	15/7/97	7.20	8.30	<i>Perameles nasuta</i>	W	1
196	16/7/97	6.15	7.25	<i>P. volans</i>	O	1
196	16/7/97	6.15	7.25	<i>Trichosurus caninus</i>	O	1
196	16/7/97	6.15	7.25	<i>T. caninus</i>	O	1
196	16/7/97	6.15	7.25	<i>Tyto tenebricosa</i>	W	1
199	14/7/97	6.30	7.45	<i>P. australis</i>	O/W	?
199	14/7/97	6.30	7.45	<i>P. australis</i>	W	1
199	14/7/97	6.30	7.45	<i>P. australis</i>	W	1
199	14/7/97	6.30	7.45	<i>P. australis</i>	W	1