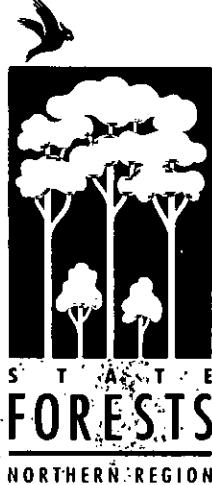


Your reference
Our reference : 479E

2 September, 1997

North East Forest Alliance
149 Keen St
Lismore 2480



ATTENTION: GEORGIE BEYER

**State Forests of
New South Wales**

Casino District
PO Box 688
Casino NSW 2470
Phone (066) 62 4499
Fax (066) 62 5826

RE: FLORA & FAUNA REPORT, OLDOGROWTH, & KOALA REPORT

Dear Georgie

Please find enclosed the above reports for Washpool 718-722. Also enclosed is SF suggested option for dealing with the multiple owl records within the area.

Andrew Whitfeld
Forester
For

R. G. Fussell
District Forester
Casino District

pw. NGC

FLORA and FAUNA SURVEY of COMPARTMENTS 718 - 722, WASHPOOL STATE FOREST.

-prepared by Robert M. Kooyman, [FA- flora and fauna] Casino District. 8/97.

Results of field surveys are provided as field diary notes, data sheets, and species lists, with scheduled and target species records provided as AMG co-ordinants. Maps provide details of sample sites, playback locations, harp trap locations, sonar detection sites, species records and distributions, and extent and location of the various transects and traverses undertaken.

Introduction:

Flora and Fauna Surveys were conducted by Kooyman, [30/7/97 to 8/8/97], with Harvey and Douglas [SFNSW] 28/7/97 to 7/8/97, assisting with the integrated koala transects, and the general and target species fauna surveys.

Assisting this core survey team were Robyn Herklots, and Nicole Harvey.

The five compartments cover over 1150 hectares, with the net loggable area adjusted to approx. 870 hectares after deletion of designated regeneration areas in cmpts. 719, 720, 721. Surveys have been conducted in the adjacent cmpts. 715 -717 [Kooyman 1996], providing additional records and survey effort in similar habitats, [but excluding the upland-cool habitats and forest types].

General Description of Survey Area:

Geology appears complex with soils of granitic origin varying from brown clay loams to free draining red soils formed by basic hornfels and /or granidiorites, as well as areas of meta-sediments. Altitudinal range varies from 970m. to 240m. Slopes are generally moderate, to steep.

The vegetation of the area is generally illustrated by the forest type map [SFNSW].

Species lists for each forest type have been compiled and are appended to this report as field notes. These provide an indicative sample of the various habitats, floristic alliances, forest types, transitional boundaries and overlaps.

The sequence of forest types largely follows the altitudinal, topographical, and soil gradients, and variations, with Ft. 163 [New England Blackbutt] on the escarpment ridges and adjacent slopes grading into Ft. 47 [Sydney Blue-gum / Tallowwood] on the mid slopes, with Ft. 53 [Brush- Box] mostly [but not exclusively] on lower slopes where it grades into, and may be part of, the rainforest communities. Rainforest [Ft. 23/26, 2/3] at higher altitudes [cool NVF], is generally restricted to the protected upslope gully heads and creek-lines occurring adjacent to, and in association with Ft. 47 & 53. A distinct riparian alliance of Ft. 53 with 23/26 [Backhousia myrtifolia, Acmena smithii var. minor, Syzygium australe, - see species lists for details] occurs at lower altitudes. In these areas there may be a well developed rainforest canopy below the emergent Lophostemon confertus, and Eucalyptus spp.

The drier ridges and slopes support Ft. 70/74 [Spotted-Gum, Grey-Gum, Ironbark], with smaller areas of Ft. 62 [Grey-Gum, Ironbark, White Mahogany], with considerable variation in the species mix of these forest types between sites.

Flora survey methodology: Plant species recorded from each forest type [and habitat] were listed, and frequency of occurrence and stratum [canopy, sub-canopy] indicated. Walked traverses were mapped. [See field notes attached.]

Particular attention was directed to locating and recording the distribution and numbers of ROTAP plant species [Briggs and Leigh, 1995 Revised], and Schedules 1&2 [NSW Threatened Species Act, 1995] plant [and animal] species.

Fauna survey methodology: Includes application of the pre-logging / roading survey design forming part of the Threatened Species Protocol [3/6/97], incidental records collected during flora survey and habitat assessments, as well as the results of integrated koala transect surveys, and includes :-

1. walked spotlight transects, one kilometre long [minimum], 100 watt light, [with dimmers fitted].
10 minute listen at start and finish.
2. call playback for target species. Nocturnal -: powerful owl, masked owl, sooty owl, yellow bellied glider, koala, marbled frogmouth, squirrel glider.
Diurnal -: rufous scrub bird, olive whistler, bush thick-knee, eastern bristle-bird
3. transect and incidental scat collection and identification. - results of predator, and [remaining unidentified] non-predator scat analysis provided by Barbara Triggs. - not yet available.
4. track identification on sandy or soft sections of roads, tracks and creek areas.
5. extended listening time for calls, [variable sample length, and dependent on conditions], targetting all playback target species listed above, and including other seasonally variable species such as wompoo and rose crowned fruit-doves, swift parrot, and yellow-eyed cuckoo-shrike.
6. harp trapping and sonar detection for bat species [seasonal constraints / winter sample].
7. frog surveys [seasonal constraints / winter sample]
8. search for all other features listed in the Threatened Species Protocol Survey Design while applying the above flora and fauna surveys. [this will be supplemented by the SFO while marking out and supervising harvesting operations. For an example see yellow-bellied glider section below].
9. no hair-tube sampling was undertaken during this survey, [thus potentially under sampling for a number of terestrial species].

NB: The survey was limited to winter, thus missing the optimum seasonal sample for some species groups, eg. bats, frogs, reptiles, and seasonal diurnal birds. Refer to previous report cmpts. 715-717..... for incidental records in similar habitat.

Rare, Threatened, or Significant Plants recorded in Washpool SF. compartments 718-722.

Acomia acoma - [3RC] ROTAP listed. Occurs occasionally at higher altitudes, mostly in association with Ft. 163, along tracks and in areas with evidence of a relatively recent fire, or disturbance event.

Marsdenia longiloba - [sch. 1, E] ROTAP - [3RC-]. Collected a number of specimens of vines from the family Asclepiadaceae during this survey. Non were this species. Remains likely to occur on rainforest margins and in adjoining eucalypt forest.

Arthraxon hispidus - [sch.2, V] ROTAP - [3VC+]. Not recorded on this survey, but the area provides suitable habitat.

Results of Fauna Surveys:

Seasonality constraints probably led to a paucity of records for amphibians, reptiles, bats, and seasonal avi-fauna.

1. Glossy Black Cockatoo [*Calyptorhynchus lathami*] - sch.2, this species was located or sighted in all of the surveyed compartments. Suitable habitat includes much of the spotted-gum, grey-gum, ironbark, [white mahogany] association, and includes areas in the other forest types. Several sites with evidence of extensive Glossy-black cockatoo feeding activity were located and marked in the field. No nest hollows were located.

Application of the Conservation Protocol and retention of all known feed trees, together with searches by SFO during mark up stage of operations should assist this species.

2. Square tailed Kite [*Lophoictinia isura*] - sch.2, not recorded on this survey, but is likely to use the large river valleys and flood plains nearby.

3. Red Goshawk [*Erythrotiorchis radiatus*] - sch.1, not recorded on this survey, but there are records for this species from the Clarence and Richmond River valleys and associated forests. This species is thought to favour the tall open forests and riparian vegetation of the river valleys, but extends up to 1000metres in altitude in suitable forest. [Debus et al, 1991]

4. Bush Thick-knee [*Burhinus grallarius*] - sch.1, not seen or heard on this survey but suitable habitat occurs in the lower altitude areas of cmpts. 718, and 722.

Searches for this species were incorporated into the general flora traverses. Playback sampling was undertaken at a number of sites in these compartments.

5. Regent Honey-eater [*Xanthomyza phrygia*] - sch.1, not recorded on this survey.

6. Swift Parrot [*Lathamus discolor*] - sch.2, not recorded on this survey.

7. Powerful owl [*Ninox strenua*] - sch.2. Records [total of 14 during survey period] for this species were obtained by all surveyors during this survey period, [see maps and AMG records for details]. Records were obtained for all cmpts. surveyed. This may be a reflection of a combination of factors providing an optimum return on sample effort, e.g. high quality habitat in the area, optimum time of year for sample, dark moon phase, optimum weather conditions, and the extent of 'natural' [ie.unprompted] calling which occurred during the survey period.

As a consequence of the rapid and extensive response to the call playback conducted on the 30/7/97 for Powerful Owl, call playback for this species ceased after the two initial, separate, samples [on that date]. Thereafter all records were from natural calling and included males and females.

8. Masked owl [*Tyto novaehollandiae*] - sch.2. Recorded on several occasions during this survey, both in response to call playback, and from unprompted calling in cmpts. 718 and 722. Calls [screeches and chattering] in the very early evening in the S.E corner of

cmpt. 722 may indicate a potential nesting/roosting site, nearby. A record was also obtained from the Washpool Forestry camp -cmpt. 685.

9. **Sooty owl** [*Tyto tenebricosa*] - sch.2. Not recorded on this survey. No playback response. Habitat in this area appears suitable for Sooty owls, and the species occurs nearby in both N.P. and S.F. areas [in similar habitat].

10. **Olive Whistler** [*Pachycephala olivacea*] - sch.2, not recorded on this survey. Playback calling was conducted on three separate days and included both morning and evening samples.

11. **Tiger Quoll** [*Dasyurus maculatus*] - sch.2, suitable habitat occurs in the area [particularly the higher altitude areas of cmpt. 721], with no tracks or sightings, and one possible scat, recorded on this survey. The tiger quoll could be disadvantaged in the lowland areas, by predation and competition from feral predators such as the dog and fox.

12. **Yellow bellied Glider** [*Petaurus australis*] - sch.2, this species was recorded in cmpts. 722, 721, 719, & 718. Retention of suitable habitat trees, and all feed trees [v-notch], together with the maintenance of floristic diversity, and the riparian exclusions, will help ameliorate further potential impacts on this species. Records accumulated for the species during this study provide an indication of current distribution of yellow-bellied gliders in this forest area, [given the limitations of a single season sample], and subsequently may indicate the possible location of potential nest/den trees and feeding sites and areas. [refer to AMGs]. The provision of this data should allow S.F.O.'s to concentrate searches for V-notch feeding incisions, and potential den-site hollows, in areas of known habitat, and surrounding areas of the same forest type, greatly increasing the likelihood of locating such sites. In the Washpool SF area yellow-bellied glider incisions have been located on Spotted-gum and Grey-gum, indicating these species as preferred, but this may vary across the survey area.

13. **Squirrel Glider** [*Petaurus norfolkensis*] - sch.2, not recorded on this survey. No response to playback calls.

14. **Koala** [*Phascolarctos cinereus*] - sch.2, pellets/scats, and vocalisations [once only during surveys], were the only indication of this species recorded on the survey. Results of Koala transect surveys are provided separate to this report, but indicate relatively low usage over most of the area.

15. **Rufous Bettong** [*Aepyprymnus rufescens*] - sch.2. Recorded several times during this survey. Generally good to excellent habitat in the lower altitude areas of cmpts. 718, & 722 [however no records from these areas], and the higher altitude areas of cmpts. 720, 721, & 719 [from where all the sightings were recorded]. No hair-tubing was undertaken on this survey. A range of non predator and predator scats were collected in the compartments listed above. Scat analysis results are not yet available.

16. **Brush tailed Phascogale** [*Phascogale tapoatafa*] - sch.2, not recorded this survey but the area has excellent dry woodland /open forest habitat. No hair-tubing undertaken on this survey.

17. Long-nosed Potoroo [*Potorous tridactylus*] - sch.2, not recorded on this survey, however this species remains likely to occur in the survey area. No hair-tubing was undertaken on this survey. Scat analysis results not yet available.
18. Parma Wallaby [*Macropus parma*] - sch.2, recorded on a number of occasions both in vehicle based spotlight surveys and walking spotlight transects. The Parma wallaby was seen grazing in open grassy forest adjacent, or near to, moist gully-lines and gully-heads or rainforest areas with thicker vegetation.
19. Black-striped Wallaby [*Macropus dorsalis*] - sch.1, not recorded this survey. A number of runways and tracks were investigated as possibly indicating this species, however all scats, tracks, and sightings appeared to be of the swamp wallaby.
20. Red-legged Pademelon [*Thylogale stigmatica*] - sch.2. Not recorded this survey. Excellent habitat in the rainforest gullies and adjoining moist forest types. These areas were relatively under sampled by the walking spotlight transects.
21. Microchiropteran Bats - [optimum survey season - Oct. to late March. Survey Protocols require two harp traps for two nights per. 200ha in suitable habitat]. In this case extra Anabat sonar sites were sampled to overcome lack of accessible *Myotis aduersus* and *Kerivoula papuensis* habitat]. Overall a six night winter sample was conducted, with records for five species - [see maps and data sheets for details]
Miniopterus australis -sch2, harp trap, and sonar [Anabat 5] records,
Mormopterus spp. - sonar records.
Vespadelus pumilus - sonar record.
Nyctophilus gouldi - spotlight/ visual record [probable], harp trap records.
Chalinolobus spp. - probable, sonar record.
Bat work was done by Noel Douglas [and assisted by Harvey,N., Harvey,K., Herklots,R., and Kooyman]. Sonar calls were recorded directly onto laptop computer and later compared to library calls by Noel Douglas, and verified by SFNSW Research Division - Brad Law. Sonar calls are ascribed file names and are retained for future reference or verification.
No mine shaft or cave areas were detected. Any such sites located during operations should be buffered from proposed operations to ameliorate potential impacts on roost/maternity/hibernation sites.
Harp trapping for *Kerivoula papuensis* and *Myotis aduersus* in suitable habitat, [flyways and larger pools along rainforest creeks], resulted in nil captures for these species.
22. Frog species - Seasonal constraints were a limiting factor. Only two species were recorded :-
Litoria latopalmata, *Litoria verreauxi*.
23. Marbled Frogmouth - [*Podargus ocellatus*] - sch.2. No records this survey.
24. Rufous Scrub Bird - [*Atrichornis rufescens*] - sch.2, two mornings, and two evenings were spent walking in areas of suitable habitat, and using call playback, and just listening for calls [higher altitude areas of cmpts. 721 & 720] No records this survey.

25. Eastern Bristle-Bird - [Dasyornis brachypterus] - sch. 1. Suitable habitat was sampled for two mornings, and two evenings. With time spent walking in areas of suitable habitat, and using call playback, and just listening for calls. [higher altitude areas of cmpt. 721] No records this survey.

**HARVESTING PLAN No 97/718Cas
CASINO MANAGEMENT AREA - NORTHERN REGION**

Rainforest will not be logged or otherwise disturbed in this operation. Trees must not be felled into rainforest.

(f) Exotic weeds

Lantana infests gully lines with thicker concentrations under moist forest types. Lantana is kept in check by infrequent frost and periodic fire as well as competition from indigenous species in the area. Crofton weed is present along some old roads.

(g) Regeneration and serial stages

The integrated harvesting operation proposed will focus on logging of available mixed hardwood stands to create gaps to promote regeneration of Eucalypts, and the thinning of regrowth stands. Past selective timber operations have left an irregular unevenaged forest consisting of some remnants of the original overstorey and one or two cohorts of maturing regrowth trees.

The understorey may follow a successional sequence from an initial cover of grasses, shrubs, wattle and regenerating eucalypts.

(h) Old Growth Forest Protocol

The area has been assessed for candidate Old Growth according to the Conservation Protocol agreed between NPWS and State Forests 29 Nov 1996. The area occurs in the "regrowth" zone where the threshold limit for candidate old growth is 10 ha. RACAC Brôad Old Growth Mapping Project maps show the area is virtually clear of Candidate Old Growth with fringing overlaps from adjacent National Park area as shown on COG Maps in Appendix 4. These areas are insignificant in size and reflect the light selective logging undertaken within the visual retention strip adjacent to the National Park. This area is separated from contiguous COG by Washpool Road or Redbank Road and may be exaggerated by the square pixel mapping technique applied. No assessment is proposed for these small fringe areas which are known to exhibit disturbance from past harvesting activity. Washpool and Redbank Road should be accepted as the logical management boundary in this case. No harvesting is proposed in the area for virtually all of the length of Washpool Road in any case except near where it joins Redbank Road. Harvesting along the perimeter of Washpool National Park along Redbank Road and a short section of Washpool Road must observe modified harvesting within the 40m visual retention zone.

Description 5 Forest and crop condition

This part of Washpool SF has been subject to integrated selective timber harvesting with grazing and bee-keeping in selected areas.

The forest is multiaged with regeneration, regrowth and scattered mature and over mature stems. Tree spacing is uneven with regeneration of wattle and thick grass cover in places creating gaps in the otherwise continuous timber cover.

Logging history records held at the Casino Forestry Office and confirmed by field inspection indicate that all areas have been selectively harvested between the years 1984-87 excepting C721 which was last harvested in the years 1988-90. Records also indicate that a light pole harvesting was carried out in the drier eastern area in the late 1970's. Harvesting adjacent to Washpool National Park incorporated a 20 m visual strip with selective marking for removal conducted by the SFO in this area. The bulk of these compartments are made up of spotted gum or spotted gum-grey ironbark/grey gum type. There is a range of size classes from large overmature and defective trees to mature trees, advance growth and regeneration. The understorey is generally grassy and sparse becoming shrubby towards gullies and in the higher altitude western compartments where moister forest types dominate. The latter moist types were intensively logged and the short time since last harvest is yet to produce logs of sufficient size for economic harvesting. Consequently most of C720 and part of C719 and 721 will not be disturbed in this operation.

HARVESTING PLAN No 97/718Cas
CASINO MANAGEMENT AREA - NORTHERN REGION

<u>Birds</u>	
Glossy Black Cockatoo	2 records within 1 km north of C718. Numerous records further north.
	1 record about 3 km west of C719 from Washpool NP
	1 record about 4 km south of C721
	Birds commonly observed flying over or feeding in the area.
Powerful Owl	2 records about 2.5 km and 4 km north of C718
	2 records about 3 km and 3.5 km south of C721
	1 record about 3 km west of C719
Providence Petrel	1 record about 3 km north of C718
Rufous Scrub-bird	1 record about 4 km south of C721
Wompoo Fruit-Dove	2 records about 4 km south of C721
	1 record about 5 km north of C719
Masked Owl	1 record within 1 km east of C718 in adjacent SF
Olive Whistler	1 record about 1 km south of C721
<u>Mammals</u>	
Eastern Chestnut Mouse	3 records within 1 km north of C718
Squirrel Glider	Recorded about 3 km north of C718.
Yellow-bellied Glider	Numerous records within 0-4 km from adjacent SF and NP north and east of the area.
Rufous Bettong	1 record within 1 km north of C718
Koala	1 record within 1 km north of C718
Tiger Quoll	2 records about 4 km south of C721
	1 record about 5 km north of C719
Parma Wallaby	1 record about 4 km south of C721
	3 records between 3 km and 4 km north of C718
Long-nosed Potoroo	2 records between 3 km and 5 km north C718
Red-legged Pademelon	2 records about 4 km south of C721
Miniopterus schreibersii	1 record about 4 km north of C719
Falsistrellus tasmaniensis	1 record about 4 km north of C719
<u>Amphibians</u>	
Mixaphes iteratus	1 record within 1 km north of C718
	1 record about 4 km north of C718
Assa darlingtoni	2 records about 4 km south of C721
Philoria loveridgei	1 record about 3 km south of C721
	2 records within 1 and 2 km south of C662 in private property

It is necessary to report and record confirmed sightings of species listed in Schedules 1 and 2 of the Threatened Species Conservation Act 1995 to the NPWS through the appropriate channels. See Condition 5.3 of this Harvest Plan.

Koala Protocol

Application of Koala Protocol

Koala transects were performed by three District staff from 28/7/97 to 7/8/97. Actual transect locations and data sheets are stored in the Compartment History Files and summarised below. Two trees in C718 each had 3 koala scats located underneath. The total transect length of 9.3 km involved ground searches on the ground beneath approximately 930 trees.

There is a single Koala vacalisation record from C722. Results of Koala transect surveys indicate low use over most of the area.

HARVESTING PLAN No 97/718Cas
CASINO MANAGEMENT AREA - NORTHERN REGION

Koala Transect Summary

Transect	Length (m)	Bearing	Species	Scats	Comment
718/1a	300	180	WM,SG,WSB	0	
718/1b	800	100	WM,TWD,BWD	0	
718/1c	300	280	TWD,WM,SG	0	
718/2a	800	102	SG,WM,TWD	3? 3 old	IBK 20-40 cm, TWD 40-60cm
718/2b	400	212	TWD,IBK,SG,WM	0	
718/2c	300	309	TWD,SG,WSB,IBK	0	
719/1	1000	118	WM,SG,TWD,RG,GG	0	
719/2	1000	257	GG,BBX,WM,TWD	0	
719/3	400	278	GG,SG,WM,IBK	0	
720/1	300	170	GG,WM,SG,TWD	0	
721/1	400	40	IBK,RG,WM,SG,BBX	0	
721/2	400	155	WM,TWD,BG,WSB	0	
722/1	500	55	TRP,OAK,WM,TWD	2	
722/2	700	330	TRP,TWD,WM,OAK	0	
722/3	600	220	TWD,IBK,SG,WM,BG		
722/4	400	150	TWD,IBK,OAK,RM,SG	0	
TOTAL	9,300			6	2 trees

2.5 SOIL EROSION AND WATER POLLUTION CONTROL

Description 11 Site soil and water data and other information

(a) Location See Map 1:15,000 attached to the Harvest Plan.

See Description 1 and 2.

(b) Climate

Climate statistics are taken from the Casino Management Plan 1983. Casino weather recording station is located about 80 km north-east of C718-722 and is representative of conditions over the area.

A warm sub-tropical climate prevails, with high summer rainfall and a dry winter and spring. Dry periods may be accompanied by strong dry westerly winds.

Rainfall

Average annual rainfall for the area is about 1107 mm. Rainfall erosivity for this part of Ewingar SF is approximately 3100. Rainfall intensity is 8.0 mm/hr for 12 hours duration - 2 year recurrence interval.

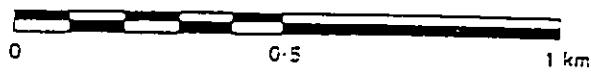
The net harvest area falls within Rainfall Distribution Zone 2. The wettest months, January and February have 19% and 17% of average annual rainfall or a calculated R value equivalent of 589 and 527 respectively. Erosivity values for all other months are below 465 and are set out in the table 3 below.

Table 3 Monthly Rainfall Erosivity Values

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
589	527	372	124	62	93	62	62	186	217	341	465

Compartment 718

Scale — 1 : 15 000



CB / 355

Contour interval 10m

1
G N



Compartment boundary

Filter strips

Protection strips

Road, minor road, dump site

Wet weather dumps shown in red

○ - ANABAT SITE.

Φ - Playback Site.

..... walking Spotlight surveys.

- - - - walked flora & fauna traverses (random).

— integrated Koala transect.

P.O. - Powerful Owl

M.O. - Masked Owl.

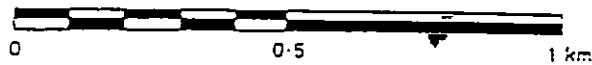
YBG - Yellow-bellied Glider

GG - Greater Glider.

X H - HARP TRAP SITE.

Compartment 719

Scale — 1:15 000



CB / 355

Contour interval 10m

1
G N



Compartment boundary

Filter strips

Protection strips

Road, minor road, dump site

Wet weather dumps shown in red

○ ANABAT SITE. φ - Playback Site.

Special emphasis

ooooo - Walking spotlight transect

----- random flora & fauna transect.

----- integrated Koala transect.

PO = Powerful Owl

GB = Glossy Black Cockatoo
(Each Tree)

YBG = Yellow-bellied Glider.

Compartment 720

Scale — 1:15 000

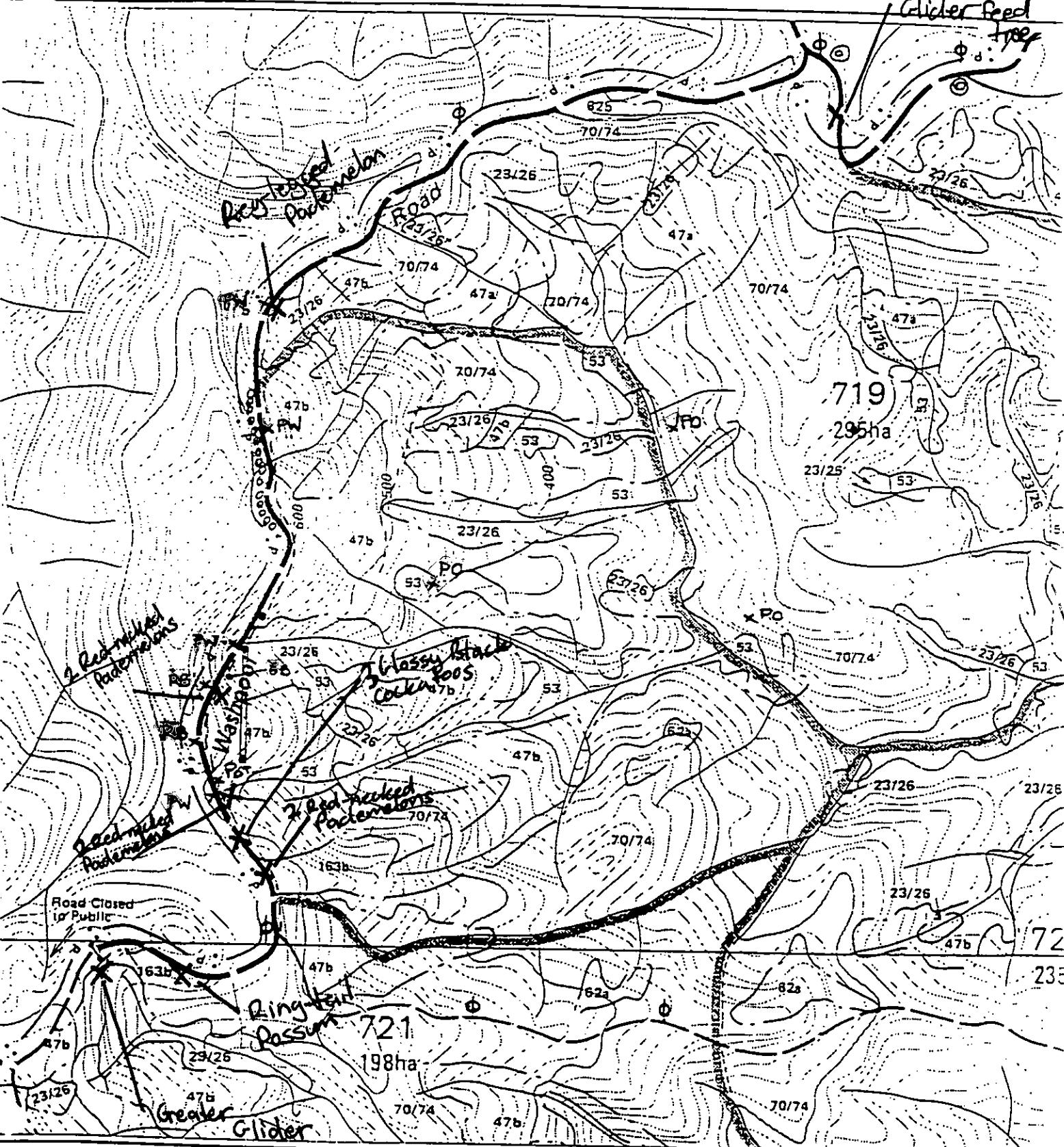
CB / 355

0 0.5 1 km.

Contour interval 10m

Yellow-bellied
Glider feed
tree

G N



Compartment boundary

Filter strips

Protection strips

Road, minor road, dump site

Wet weather dumps shown in red

Φ = Playback Site. ○ ANABAT site.

Special emphasis

--- - Random flora & fauna transect.
- - - Integrated Koala Transect.

PO = Powerful Owl

PW = Parma Wallaby

Pot = Potaroo

RB = Rufous Bettong

GB = Glossy Black Cockatoo

Compartment 721

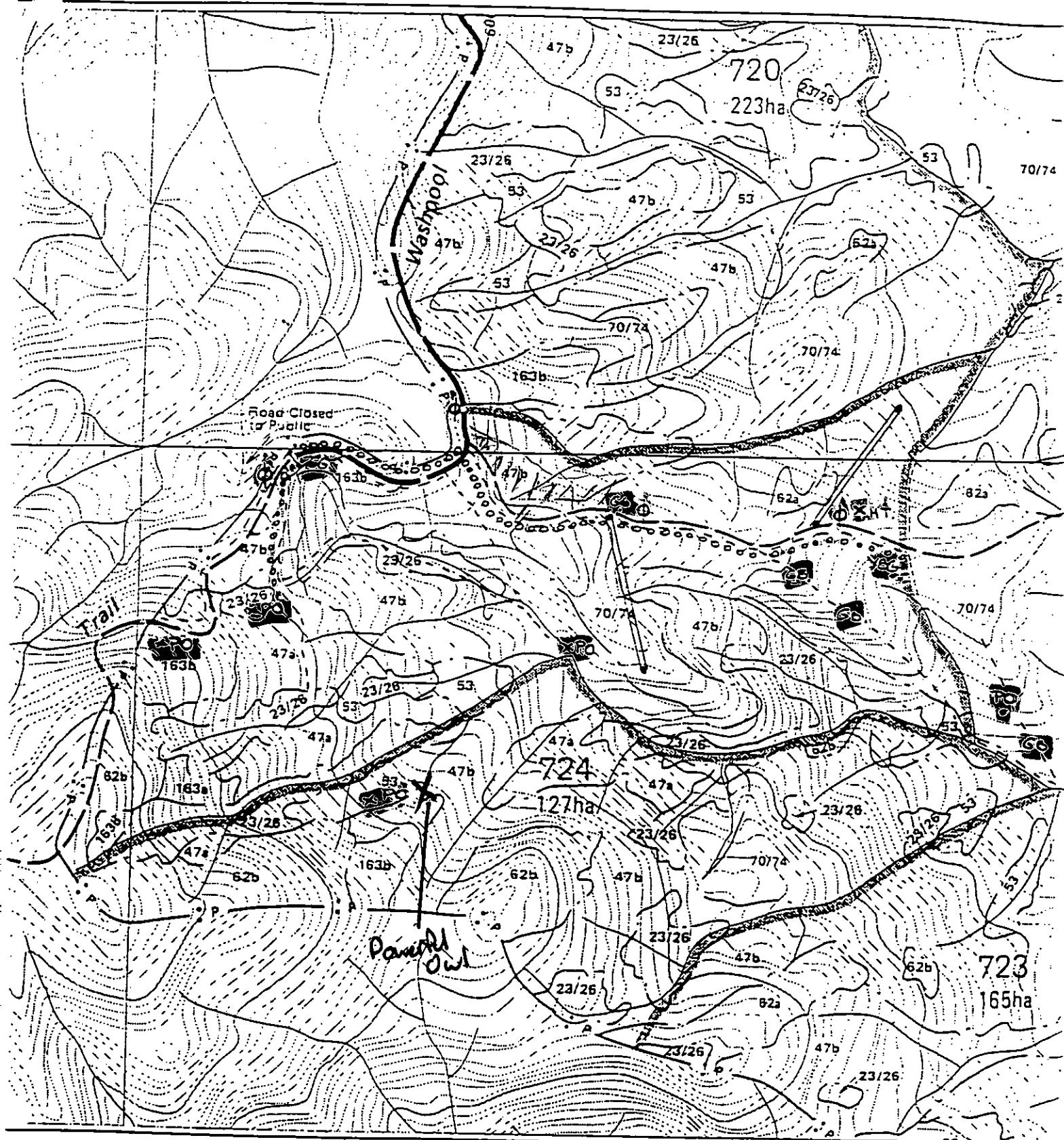
Scale — 1:15 000

CE / 355

0 0.5 1 km.

Contour interval 10m

1
G N



Compartment boundary

Filter strips

Protection strips

Road, minor road, dump site

Net weather dumps shown in red

= Playback Site. × = Harp Trap.

Special emphasis

oooooo - Walking Spotlight Transect.

- - - - - Random Flora & Fauna transect.

— Integrated Koala Transect.

PO = Powerful Owl

YBG = Yellow Bellied Glider.

GG = Greater Glider.

GB = Glossy-black Cockatoo
(feed Site).

Compartment 722

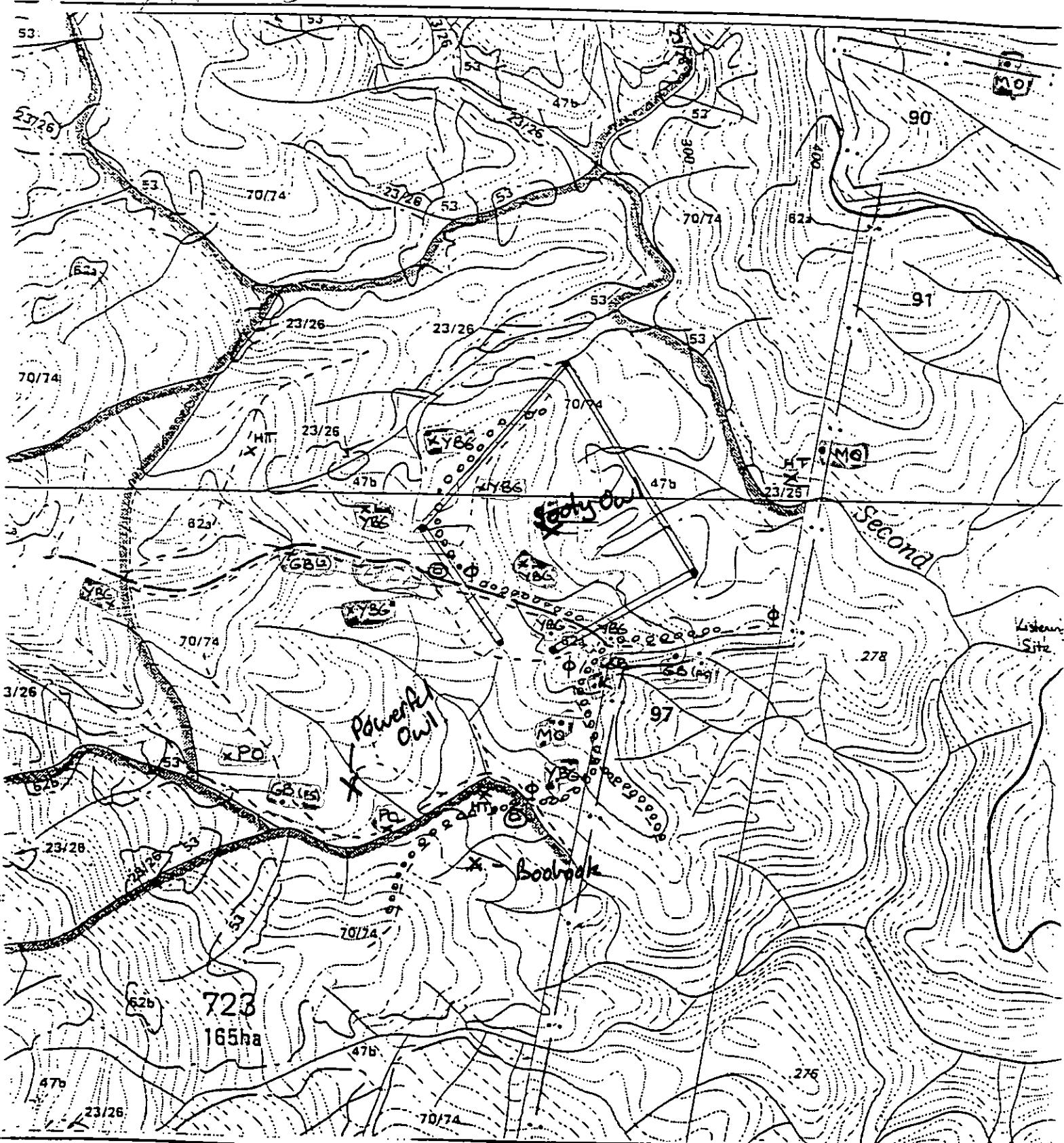
Scale — 1:15 000

CB / 355

1
G N

Scale bar: 0 0.5 1 km.

Contour interval 10m



Compartment boundary

Filter strips

Protection strips

Road, minor road, dump site

Wet weather dumps shown in red

○ = Playback Site. Ⓢ = ANNOTATE SITE.

Special emphasis

oooooo - Walking Spotlight Transect

random flora & fauna transect

Integrated Koala Transect.

PO = Powerful Owl GB = Glowing Black Cockatoo

Mo = Masked Owl HT = HARP TRAP SITE.

YBG = Yellow-bellied Glider.

SO = SOOTY OWL (SOOTYOWL)

WASHPOOL		S.F. CMPTS: 718 - 722		8/97:		SURVEY		EFFORT		(DISTANCES IN KMS.)		timers or per. methodology...	
COMPARTMENT	SPOTLIGHT		SAMPLE	FLORA & FAUNA (random)	INTEGRATED KOALA TRANSECT.	BAT SAMPLE	FROG	HAIR-TUBES	CALL	SCATS	MURNAL BIRDS	SEASONALITY CONSTRAINTS YES/NO.	
	WALKED	DRIVEN				HARP	ANABAT	GENERAL	PLAYBACK NO. OF SITES	Pred. Other	(SAMPLES)		
718 (314 ha)	2.5 km (x2)	5.0 km (x2)	5.0 km		29. km.	2	2	INCIDENTAL RECORDS ONLY	6 12x2 14x1	✓ ✓	2	YES BATS HERPS AMPHIBS. DILENTIAL BIRDS.	
719 (295 ha)	1.0 km (x2)	2.5 km (x2)	3.2 km		8.1 km.	-	1	SEASONAL CONSTRAINT	2 (m) 2 (low) (sharck-718).	✓ ✓	-	YES	
720 (223 ha)	-	1.5 km (x2)	1.5 km		.3 km. (reduced area).	-	-	NO	adjacent only.	- -	-	YES	
721 (192 ha)	1.5 km (x1)	1.8 km (x2)	3.5 km.		.8 km.	-	-	NO	4 2x2 2x1	✓ ✓	2	YES	
722 (235 ha)	1.7 km (x2)	2.5 km (x2)	4.7 km.		2.2 km.	3	2	NO	4 2x1 2x2	✓ ✓	2	YES... Playback & listen.	
TOTAL: Walkable: 880 ha	reg. min. 8.8 km. 1K. per 100ha.	reg. min. 8.8 km. 1K. per 100ha.	reg. min. >17.6 km. 2K. per 100ha.	reg. min. 8.8 kms. 1K. per 100ha.	(2x2 per 200 ha.) 8 site min.	*SEASONALITY CONSTRAINTS... (training opportunity)							
TOTALS:	<u>6.7 kms.</u> 5.2 km x 2 1.5 x 1. (11.9 km total walked).	<u>13.3 kms</u> 13.3 x 2. (26.6 km total driven)	<u>17.9 kms</u>	<u>9.9 kms.</u>	<u>6 sites</u> =	<u>5 sites</u>	INCIDENTAL RECORDS ONLY.	HAIR-TUBES NOT AVAILABLE YET.	18 sites. 8x2 10x1	Scat Behavior Traces Pred. Other	RSB - OW - Wombat - Swift Parrot - Bush-turkey - EBB -	Habitat specific samples: no (scatology); no... no (seasonality); no... no (scatology - no) no (no) no (no) no (no)	

Casino District
Reporting of Scheduled - Fauna Sightings

WASHPOOL S.F.

FAUNA SURVEY

observer : Robert Kooyman
 (except where indicated otherwise).

30/7/97 - 8/8/97.

Counts. 718 - 722.

Date	State Forest	Cpt No.	Type of Inspection (*)	Species of Fauna Sighted	Description of Fauna Sighted - eg adult, juvenile, breeding female, call only etc	AMG Reference	General Comments (eg at log dump, road side, Forest Type etc)
31/7	WASH.	722	I	YBG	calls	4 42600	67 546 20
31/7	WASH.	722	I	YBG	calls	4 42950	67 551 00
6/8	WASH.	722	II	Glossy Bl. Cockatoo	♂ ♂ feeding.	4 42420	67 547 30
30/7	WASH.	722	I	Powerful Owl.	♂ - calls	4 42520	67 541 50
6/8	WASH.	722	II	Glossy Bl. Cockatoo	Feed Site. Allocas.	4 42520	67 541 20
31/7	WASH.	722	I	KOALA	calls (not playbacks)	4 43350	67 545 10
31/7	WASH.	722	I	MASKED OWL	calls - no playbacks then response to tape.	4 43300	67 542 00
31/7	WASH.	721	I	GREATER GLIDER	Spotlight (walk).	4 40310	67 547 00
30/7	WASH.	721	I	Powerful Owl	calls, ♂	4 40500	67 546 30
30/7	WASH.	721	I	Powerful Owl	calls, ♀	4 40250	67 544 75
31/7	WASH.	721	I	Greater Glider	spotlight. (walk).	4 41320	67 547 75
6/8	WASH.	721	I	YBG	calls	4 42100	67 546 50
7/8	WASH.	721	I	Powerful owl	calls ♂	4 41200	67 546 20
6/8	WASH.	721	II	Glossy Bl. Cockatoo	Feed Site - Allocas.	4 42000	67 545 00
6/8	WASH.	721	II	Glossy Bl. Cockatoo	Feed Site - Allocas.	4 41800	67 547 50
6/8	WASH.	720	I	Powerful Owl	calls, ♂	4 41350	67 560 10
30/7	WASH.	720	I	Rufous Bettong	driving - spotlight.	4 40700	67 556 50
5/8	WASH.	720	I	Rufous Bettong	driving - spotlight.	4 40660	67 557 10
30/7	WASH.	720	I	Farm wallaby	driving - spotlight.	4 40700	67 558 50
30/7	WASH.	719	I	Powerful Owl	calls, ♂	4 42700	67 564 50
6/8	WASH.	719	I	Powerful Owl	calls	4 42550	67 569 00
30/7	WASH.	719	I	Powerful Owl.	calls	4 42200	67 559 50
30/7	WASH.	719	I	YBG	calls	4 42220	67 572 75
30/7	WASH.	719	I	YBG	calls	4 42410	67 572 50
30/7	WASH.	719	I	YBG	calls	4 42175	67 575 20

Type of Inspection

- 1. Night Time Surveys
- 2. Follow-up Clearance Inspection
- 3. Rejects Inspection
- 4. Regeneration Inspection
- 5. Road Line, Dump Sites Inspection
- 6. Timber Assessment

- 1. Marking Boundaries, Filter Strips or Conservation Areas
- 2. Reports from Log Packer
- 3. Head Disposal Burning
- 4. Harvesting Planning
- 5. Other Forest & Fauna

Casino District
Reporting of Scheduled - Fauna Sightings

WASHPOOL S.F.

30/7/97 — 8/8/97

FAUNA Survey
Counts 718 - 722

observer: Robert Kooyman.

Date	State Forest	Cpt No.	Type of Inspection (*)	Species of Fauna Sighted	Description of Fauna Sighted - eg adult, juvenile, breeding female, call only etc	AMG Reference	General Comments (eg at log dump, road side, Forest Type etc)
31/7	WASH.	718	1	MASKED OWL	calls (no playback)	4 44550	67 56350+
31/7	WASH.	718	1	MASKEEN OWL	calls - playback	4 44500	67 56600
31/7	WASH.	718	1	Greater Gl. Owl	spotlight.	4 44425	67 56510
4/8	WASH.	718	1	Greater Gl. Owl.	spotlight.	4 44610	67 56450
4/8	WASH.	718	1	YBG	calls	4 43680	67 56900
30/7	WASH.	718	1	Poto owl Owl	calls, ♂	4 44400	67 57350
31/7	WASH.	718	1	Masked Owl	calls (no playback)	4 44100	67 54850+
31/7	WASH.	718	1	Masked Owl	calls (no playback)	4 44000	67 55120
30/7	WASH.	718	1	YBG	spotlight & calls.	4 42900	67 57600
30/7	WASH.	718	1	YBG	calls	4 43525	67 57830
30/7	WASH.	718	1	YBG	spotlight / calls.	4 42690	67 57430
30/7	WASH.	718	1	YBG	calls	4 44900	67 57800
30/7	WASH.	718	1	YBG	calls.	4 44925	67 57990
30/7	WASH.	716	1	YBG	calls	4 45100	67 58020
30/7	WASH.	716	1	YBG	calls	4 45050	67 57850
DANAL PARK RECORDS							
30/7	WASHPOOL	-	1	YBG	calls	4 42280	67 57575
30/7	WASHPOOL	-	1	YBG	calls	4 42410	67 57380
30/7	WASHPOOL	-	1	YBG	calls	4 43600	67 57990
7/8	WASHPOOL	-	1	Powerful Owl	calls ♂	4 39400	67 54000+
7/8	WASHPOOL	-	1	Powerful Owl.	calls ♂	4 39950	67 54450.

Type of inspection

- | | | |
|----------------------------------|----|---|
| Night Time Surveys | 1. | Working Boundaries, Wilder Lands or
Conservation Areas |
| Follow-up Clearance Inspection | 2. | Reports from Log Pather |
| Rejects Inspection | 3. | Head Disposal Burning |
| Regeneration Inspection | 4. | Harvesting Planning |
| Road Line, Dump Sites Inspection | 5. | Other |
| Timber Assessment | 6. | |

Casino District
Reporting of Scheduled - Fauna Sightings

WASHPOOL S.F.

FAUNA SURVEYS

observers: KERIN HADLEY / Robyn Hart
 NORN DOUGLAS / Nicole Hart

28/7/97 - 7/8/97.

Cmpts. 718 - 722

Date	State Forest	Cpt No.	Type of Inspection (*)	Species of Fauna Sighted	Description of Fauna Sighted - eg adult, juvenile, breeding female, call only etc	AMG Reference	General Comments (eg at log dump, road side, Forest Type etc)
28/7	WASH.	722	1	YBG	calls	4 43200	67 54220
28/7	WASH.	722	1	YBG	calls	4 43200	67 54500
29/7	WASH.	722	1	YBG	calls	4 43010	67 54680
29/7	WASH.	722	1	YBG	calls	4 43220	67 54770
29/7	WASH.	722	1	YBG	calls	4 43070	67 55000
29/7	WASH.	722	1	YBG	calls	4 42760	67 54950
30/7	WASH.	724	1	Powerful Owl	calls	4 40800	67 54100
30/7	WASH.	720	1	Parma Wallaby	spotlight / drive.	4 40730	67 55300
30/7	WASH.	719	1	Powerful Owl	calls	4 41900	67 56500
5/8	WASH.	718	11	Glossy Bl. Cockatoo	seen.	4 44766	67 56399
5/8	WASH.	722	1	Powerful owl	calls	4 42800	67 54050
6/8	WASH.	720	1	Powerful owl	calls	4 41350	67 56010
29/7	WASH.	722	11	Glossy Bl. Cockatoo	Feed site (All day)	4 43600	67 54650
30/7	WASH.	719	11	GB Cockatoo	Feed Site	4 42150	67 57450
30/7	WASH.	719	11	GB Cockatoo	Feed Site.	4 42100	67 57500
5/8	WASH.	685	1	Marked owl	calls (no observations)	4 44679	67 62942
5/8	WASH.	718	1	YBG	calls	4 44300	67 56650
6/8	WASH.	718	1	YBG	calls	4 43820	67 56790
6/8	WASH.	718	1	YBG	calls (\pm 100m.)	4 44290	67 56400
5/8	WASH.	720	1	Rufous Bettong	spotlight / drive.	4 40750	67 55570
30/7	WASH.	720	1	Parma Wallaby	spotlight / drive.	4 40800	67 55200
30/7	WASH.	685	1	Parma Wallaby	spotlight / drive.	4 44450	67 62100
30/7	WASH.	722	1	Powerful owl	calls	4 42450	67 54150
30/7	WASH.	722	1	YBG	calls	4 42940	67 54722

** Type of Inspection

- 1. Night Time Surveys
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- 1. Marking Boundaries, Filter Strips or Conservation Areas
- 2. Reports from Log Fallier
- 3. Head Disposal Burning
- 4. Harvesting Planning
- 5. Other, Integrated Koala transects etc..

WASHPOOL S.F. Comps. 718-722.

Fauna species list: General....

Peter Kooyman.
7/97, 8/97.

- Whip-bird
Cat-bird (Green)
Pied Currawong
Flock Pigeon(s).
Wedge Pigeon
White-necked Pigeon.
White Cockatoo
King Parrot
Eastern Rosella
Mountain Lorikeet (Crimson Roselle)
Scaly-breasted lorikeet
Little Lorikeet
White-throated tree-creepers
Bell-miner,
White-browed scrub-wren.
Yellow-throated scrub-wren.
Yellow Robin,
Pileolated Robin.
Gray Fantail
Golden Whistler
Silver-eye
Yellow-tailed Black Cockatoo
Glossy Black Cockatoo
Red-browed Finch,
Pied Currawong
Superb Lyrebird
Tawny Frogmouth
White-throated Nightjar
Gray-throated
Noisy Pitta
Rufous Ground-thrush (low att.)
Aust. Ground-thrush (?).
Slender-faced Cuckoo-shrike
Lawins Honeyeater
Brown quail
NECK FOR:
Swift Parrot
Olive Whistler
Red-rump Scrub-bird (no response to call playback).
SOOTY Owl.
Spangled Drongo ..
angling Kookaburra.
- Taronga wallaby
Red-necked pademelon
Long-nosed Potaroo (not confirmed).
Swamp Wallaby
Whip-tail Wallaby
Eastern-gray kangaroo
(Rufous Bettong)
Long-nosed Bandicoot
Brown bandicoot
- Sugar Glider
Yellow-bellied Glider
Greater Glider
Feather-tailed Glider
- Mtn Bobart
Ringtail Possum
Common Brushtail Possum
- Nectophilus (gouldii).
Chalinolobus (gouldii)?
mario
Verpadelus pumilus
Microtis australis
- Goanna
Diplodactylus
Chatterer's Skink ...
Littoral Lizard
Littoral versicolor
(possible: L. tylorii)
- Painted Button-quail (esp. 718.58.).
Eastern Spinetail
Green-winged Pigeon
* Masked owl
- Gray Goshawk
Wedge-tailed Eagle
? Falcon (chasing flock pigeons).
- * Yellow-tail cuckoo Shrike (calls only) checks early mornings (part catbird call?
plaintive - whoo-whooh! NO - part (juvenile) catbird call only)
- * Olive Whistler - (response to Playback 8.30am 3/7/97.) & NO.
- re: singing - no response.....

WASHPOOL S.F. CMPTS. 718-722.

Robert Kooyman.
1/8/97.

AMG LOCATIONS FOR LARGE FOREST OWLS -: 30/7 & 31/7/97. (only)

WFO: 30/7/97 - POWERFUL OWL - ↗ 4 40350 67 54000 (Kevin Harvey & Kooyman FULL PLAYBACK).
unprompted... i.e. no playback → 4 42500 67 54150 (Noel Douglas & again next night - Kooyman)
no playback → 4 42700 67 56450 (Kooyman & heard b.- Douglas) ♂
+ ↗ 4 44400 67 57350 (Kooyman, low.vol. PLAYBACK, very brief (20 sec. max)).
-: interestingly, except for 4 40350 67 54000, no calls from N.P. area ...

TUES: 31/7/97
- conducted several playbacks to test this - no response ...
- this probably relates to the large creeks in S.E., draining S.E.

MASKED OWL -

- * CMPT. 722 Location ① ↗ nearby. 4 43300 67 54200 - (Kooyman, early evening, could indicate roost/den/cont site, unprompted calls, then low vol. playback - very brief -- more call responses ...)
↓ nearby ↘
* CMPT. 722/718. Location ② ↗ 4 44100 67 54850 - (Kooyman, several calls... unprompted).
* near. CMPT. 718 ↗ 4 44550 67 56350 - (Kooyman, several calls, unprompted toward C. 718.)
↑
* CMPT. 718 ③ ↗ 4 44500 67 56600 - (Kooyman, several calls, response to low.vol. Brief Playback).
* POWERFUL OWL - ↗ 4 42500 67 54150 - (N.B. previous night. Kooyman --- unprompted calls).

NB: Great care was taken to avoid 'loud' Playback which could have 'dragged' target species in from the surrounding area.

Results indicate 'actual' distribution rather than an effect of technique.
(More records were obtained, but these were near existing records or in the same drainage system(s), for P.O.).

DAY 1.

WASHPOOL S.F.

cmpts: 718 - 722

FLOOR & FAUNA SURVEYS

Robert Koayman

WED. • 30th July, 1997.

- arrive 1pm. - lunch - street survey -.

Reconnaissance: check roads, tracks, etc. Meet up with K. Harvey et al.

Drive tracks, brief botanical survey etc.

- Red-necked Pademelon(s) ... on track. Intersection N. Cmpt. 719 (Washpool Rd / Redbank)?

START NIGHT SURVEY: 6pm listen: Bandicoot, Ringtail Possum,

6:30pm - Call Playback - Powerful owl - no response (after > 10-sec. distant P.O. call)
reconnaissance... 6:55pm - Masked owl - no
see Harvey for record... or?

Listen: Bandicoot, YBG

Finish: 7:20pm.

Sooty owl - no

YBG - no

Koala - no

* weather: overcast, some light drizzle, temp. 10°C at 7pm. no wind, conditions - DAZ
- very dark. O - no moon.

Noel - ANUAT SAMPLE. KEVIN - cmpt. 720/721 - Release Microchiropteran bat (*Nicotragylus gouldii*)
- attempt call/snar recording on release....
Bad release sample.
• Call Playback - P.O. - response/record.

7:30pm - Walking spotlight transect -: cloud cover lowering... Redbank Rd from Washpool Rd 2
approx.

30m - YBG calling - Bandicoot (long noise)

100m - another YBG calling... Large.

150m - Spotlight YBG - Spotted gum - near Rd. edge.
Powerful owl - calling - S.W.? (1km?)

300m - P.O. calling - S(S.E.) - > 500m - O!

350m - small macropod (Pademelon?).

400m - several small macropods ... (thumping-warnings - Pademelon ... Thylogale spp.,
Bandicoot noises...)

500m - YBG's calling

White-throated Nightjar. ... light rain - cloud down to tree tops ...

550m Greater Glider - : White Mchag. near Rd. Den-site... (hollow...)

300m-1km. Sugar-glider - calls.. YBG - calls.

8:50pm Return to vehicle - check distances, map calls etc. * cloud clearing, then returns.

9:45pm - N.E. corner Cmpt. 718, Redbank Rd. (cmpt. boundary 716).

but lifted...

Listen: YBG's calling. - (see Mapping....)

PLAYBACK CALLS 1: very short sequence P.O. - low vol. - no response .. wait 5 mins. Listen -:

(P.O. calling. S.W. (xmap)?

Masked owl - no response. -

* seems to indicate 2 pairs of P.O. and associated
'home ranges' - 1 pair - C 719, 718 (part 722, 720. (nearby))
- 1 pair - C. 721, 722, (723, 724). (sewn

10:30pm - do mapping - from 11:00pm - drive to end of road / set up camp - 11:30pm.

Perme Wallaby - on road - 1 adult.

Brushtail possum calling

Wombat - Potaroa) -

* 11:50pm.

Rufous Bettong (3) - on road (2 adult, 1 Juvenile).

WATKINSON S.F.

FLORA & FAUNA SURVEYS

Robert Koangman
31/7/97.

8:00 am - List Bird calls etc. Weather: fine, clear, warm, light breeze. Top. Temp. 20°C.

Compile Species List - Flora (Fr. 67. / 163 ... Grassy). Walk along Ridge ...

9:30 am. PLAYBACK CALLS - at end of Watkinson Rd - NP. (no megaphone ... just tape-recorder... Vol: 7
↓ Rufous Scrub-bird - no response. Song Tcm 5000 Hz

Yellow-throated Cuckoo-Shrike - was - uh! calls from gully area ... primitive (catbird like ... check! again!)

* Olive-whistler - call response ... I check again - no ... unable to get calls, or call up bird...
Eastern Bristlebird - no response ...

9:30 am. END.

10:00 am... Walk - Veg. Sample & more Playbacks in suitable Habitat... (no responses) Eastern Bristlebird
(W.E. BOT). Olive-whistler

12:30 pm - back to vehicle ...

Shift to - Camp. 722

1:45 pm - Lunch S.E corner 722.... 2:15 pm.

Start: Species lists for Fr. 47, Ft 53 - eucalypt sample... , Ft. 62 (open, grassy).

Check sites for Bettong surveys... etc.. Night / Playback Sites - target M.O. tonight;
Camps. 722 & 718 - check vegetation - sample... (open, grassy - near road)

Return to C722. 5:30 pm.

6:00 pm. START NIGHT WORK. S.E corner C.722. Weather: fine, increasing cloud, cool,

LISTEN: * KOALA - calling (see MAP for location).... O - no moon, very dark. 6:30 pm + 11°C.

6:05 pm - MASKED Owl - call (1 call only) * still partly light / fading fast - : INDICATES POSSIBLE NEARBY NESTING HOLLOW

* 6:10 pm - Play Short sequence of MO - low volume --- NEARBY

* 20 sec. of Playback - * Masked Owl calls - < 30m ... screen & (chattering)

Spotlight MO - moved immediately from tree, in flight ---

= several calls while circling PLAYBACK SITE, then more distant

call (> 50m - 100m) N.E.: then no more calls....

6:30 pm: --- distant calls → C.718 ---

chattering calls toward creek, then stop 5min,

* - Light wind picking up / increasing background noise distant screen calls ... M.C.

* This site has records for P.O. (nearby), M.O., K., YBG., ... try Squirrel Glider...
Playback calls - Sq. G. - no response

6:40 pm - Distant P.O. - calls - WSW. (consistent with N.D. record 30/7/97).

YBG's calling - then drive North along track (Eastern edge Camp).

brief PLAYBACK/low vol.* - Masked owl heard calling - see MAP for location ...

8:30 pm - Walking Spotlight Transect -: target Rufous Bettong. (near PLAYBACK site)

- Boobook owl - calling. (toward creek).

9:45 END walking transect - Rain = light, cloud darkening....

Drive up track - Spotlight GG. (see MAP) Bandicoot (long nose) - on road.

END: 10:00 PM. set up camp... 10:30 pm.

EXT WEEK: Check for - Arse derlingensis - higher alt. Phalaris spp. - high altitude.

Misgonyx spp - creeks (lager) Quoll. Spotlight Grassy areas -

Bush thick-knee ♂ (other) dimid birds - ,

- target Bettong -

Monday
4th July, 1997
Aug.
Arrive: 7:30pm -

FLORA & FAUNA SURVEYS
Washpool S.T. Camps. 718-722.

Robert Koayman
48-97

START DRIVING SPOTLIGHT TRANSECT: Track into C. 718. NW - SE

WEATHER: OVERCAST, O - no moon, Temp. +9°C @ 7:30pm.
light rain, very dark, light breeze ... ease to negligible...

- Bandicoot(s)
 - Red-necked Pardalote
 - Stop: Listen - Sugar glider - light rain.
 - 2.5km - Greater Glider - Spotted Gum - 'DEN' hollow. marked H
 - Ft. 70/74 - open/grassy....
- Glider Den.

9:00pm. - Listen: White-throated Nightjar.

* * PLAYBACK CALLS -
YBG - no response
Kookaburra - no response

Squirrel Glider - no response

9:30pm. S.E. Part of Camp 718.

Walking spotlight transect - open woodland - target Bettong, Macropods etc...
- bandicoot - heard

- Boobook owl.

... then drive / spotlight on 2nd track.

10:30pm - END. - YBG calling > 250 ± 50m.
- set up camp 11:00pm.

11:30pm - GG in tree ... 40m camp.

- calls ... Sq.G.? X No. - outlet Nightjar....

+ TUESDAY 5th July, 1997. Partly cloudy, warm, mostly fine. ... shower in afternoon.

8am - Bush tick-free Playback ... no response.

Veg. Surveys - Riparian sample, & Ft. 70/74, etc...

5:00pm → Camp. 722 - high alt. Playback calls far - RSB - no response
S.W. OW - no response - ?
6:00pm - S.E. corner 722. - 6:15pm. Listen: 3 mins - EBB - possible / ?

- then soft playback M.O. then turned up to 5 Vol. - 40sec of play...
response after 2 mins.

6:45pm - 3 calls ... then one more distant.
(considers previous record)

WEATHER: overcast, +12°C 7:00pm., breeze to 10k., then very light after 7pm.
conditions. O - no moon, very dark....

DRIVING SPOTLIGHT TRANSECT - C. 722 to C. 718. Eastern boundary - nothing seen.

ANABAT SAMPLE - S.E.(722. (Noel & Nicole). — M.O. calls (distant....

WALKING SPOTLIGHT TRANSECT - brush-tail possum. - (distant) P.O. >500m. C. 722. boundary line
Finish 10:40pm. Set up Camp.... 11:00pm. end. — (in K. Harvey also far same record).

Noel saw Rufous Bettong - clear sighting.... on road C. 720. (earlier possible - R.Koayman - possible...)

Wed. 6th August. 1997.

FLORA & FAUNA SURVEYS
WALPOOL S.F. Capt. 718-722.

Robot KANGAROO.

Blow. - Playback call: Brown-thick-knee - no response. (s.e. corner C.722).
Glossy Black Cockatoos > 4 calling nearby.

Veg. Survey: 1.0. specimen etc.... Capt. 722 to 721 F.70/4, F.62., F.53-Riparian...
- wet area on old track - C.722 - tracks - Potaroo? - runways.... Bandicoot...?
Dog-tracks,

Glossy Black Cockatoos 1/♀, 1/♂, feeding on Allocasuarina torulosa.... C.722.

Veg. Survey - Capt. 721 5:00pm. | Weather: fine, clear, then part cloudy,
O - silver moon/set 8:00pm. temp. 16°C.
- no wind.

- Shift to Ewingar Capt. 663 - Marbled Frogmouth - TARGET survey
3 playback from road - both sides main Crk. - 1 site too come
near record. Walk down > 50m to RF vegetation - then ...
1 playback near gully banks - LISTEN 10 mins. end. NO response....

Capt. 660 - Marked owl - playback - no response ... end. 9:10pm.
& listen.

Drive back to WALPOOL S.F. 718-722 -

Walpool Rd 10:00pm. Rufous Bellbird - above Walpool Crk.

Walpool Rd - 10:20pm - near C.720-722 - Parrot Wallaby (on road).

Track into Capt. 721 -:

PLAYBACK SITE: YBG - no response.

KOALA - no response.

LISTEN: 10 mins... Sq.G - no response.

Boobook owl - calling.

* Powerful owl - calling ♂ - Capt. 720-(719.) / 350°.

12:15pm: end - set up camp - 12:30pm.

NB: YBG records are all calls, or sightings - indicating overall distribution
in area and will assist SFO to locate 'feed' trees etc... in
particular sites. Please provide SFO with maps etc...

Thurs. 7th August, 1997 Flora & Fauna Surveys
WATTPPOOL S.F. Camps. 718-722. Robert Keayman.

Plan - Start top end of C. 722 - Playback - RSB - no response
OW - no response
EBS - no response.

Veg. Surveys - part C. 718, 719, 722, 721.

Finalise mapping etc. with Kevin & Noel, et al.

5:00 pm - end.
6:00 - Listen: organic gear etc...
6:30 pm - I.D. Specimens etc.

Weather: fine, clear, after early rain, (cool change), clear night 0° - 2° ;
 $+9^{\circ}\text{C}$. 7:00 pm.

Playback calls - Booby owl - no response.

LISTEN: (only) Powerful owl - calling down valley (see map)

- Walking spotlight transect -: C. 724. (721.).

Greater Glider - near camp.

Mtn. Brdick Possum - calls, fighting ... etc.

Sugar-gliders - 3 - calling.

Boobook owl - distant calls ...

Burdicoot - ?

Small macropod - 'thump' alarm ...

8:00 pm. end. Camp - Camp. 722 - top end.

9:42 pm - Powerful owl started calling - ♂ - $50\text{m} \pm 20\text{m}$ S.E.

- into head of gully -

9:50 pm - still calling / same position

9:51 pm - female calls several calls, then quiet, Male increases call strength & frequency of calls

10:05 ^{stopped} set up tape player to record P.O. calls - record $> 5\text{ min. calls}$
Boobook owl calling.

Greater Glider sitting in tree nearby lucky boy!

- White-throated Nightjar - flying over - calls

WASHPOOL S.F. Camp. 718-722.
Ft. 23/26 (\pm Ft. 53, 47, 163.)

FLORA Survey.
Higher alt. - NVF. *I. sclerophylls*

Robert Kooyman.
8/17.

- Schizomeria ovata (o-)
- C. Cryptocarya erythroxylon (vo-o)
- C. Stolare woolssii (z-o)
- C. Calochlaena paniculata (o)
- C. Toona ciliata (vo-o)
- C. Dycorynium mollissimum (z-vo)
- C. Dycorynium rufum (vo)
- C. Syzygium glandulosum (o-c)
- C. Acmena smithii (vo-o)
- C. Syzygium cordatum (vo-o)
- C. Syzygium caryanthum (z-vo)
- C. Dycorynium fraserianum (vo-o)
- Diploglottis austrotica (o)
- Endiandra muelleri (vo-o)
- Litsea reticulata (o-vo)
- Cryptocarya obovata (o-vo)
- Pararchidendron pruriens (vo-o)
- Acamptilia dolayfolia (o)
- Jasra pseudopharne (o)
- Cryptocarya glauca (o-c)
- Neolitsea dealbata (o)
- Neolitsea australiensis (vo-o)
- Syzygium oleosum (o)
- Elaeocarpus kirtianus (vo-o)
- E. obovatus (vo-)
- Dendrocnide excelsa (o-c)
- Dendrocnide photinophylla (vo)
- Elatostia acuminata (vo)
- Daphnandra sp. A. (o)
- Rhodomyrtus rubescens (o)
- Tiaromaria incipida (o)
- Livistona austrotica (vo-c)
- Grevillea leichardtiensis (o-vo)
- Cryptocarya erythroxylon (vo-o)
- Alectryon subcinerascens (vo-o)
- Cryptocarya rigidula (vo-o) ^{no leaves}
- Melicope micrococca (o)
- Endiandra sieberi (vo)
- Archastaphelia cunninghamiana (vo)
- Lindernia monostachys (vo--o)
- Madura cochinchinensis (vo)

- Anadrepanisia blanchii (o)
- Berris involuta (o-c)
- Cissus hypoglauca (o)
- Cissus antarctica (o-c)
- Cayratia clematidea (o)
- C. australis (vo-o)
- Hibbertia scandens (vo-o)
- Calostoma subspicatum (o-)
- Rubus hillii (o)
- Rubus moorei (o)
- R. rotundifolius (o-c)
- Marsdenia rotata (o)
- M. flavaeana (vo-o)
- Araliaceae: Specimen - clear sap... * Marsdenia longiloba.
- * M. sp.? longiloba (clear sap &c...) Specimen: Eurycoma antarctica (o). check - evergreen
- Dioscorea transversa (vo-o). Tylophora paniculata
- Palmeria scandens (o)
- Piptocalyx moorei (vo)
- Streptothamnus moorei (e-vo)
- Sarcopeltidium harveyanum (vo-o)
- Rhipogonium album (o-vo)
- R. elatiforme (o-c)
- R. album (small leaves form) (R-o)
- Stephanie japonica var. diandra (o-c)
- Lemnephora moorei (vo)
- Piper - nake hollardiae (o-c)
- Makarina scandens (vo-o)
- Rauvolfia leichardtiensis (vo-o)
- Pteris umbrosa (vo-c)
- Arthropodium sp. (vo-o)
- Asplenium austrolepidium (o-vo)
- Allocasuarina brachystachys (vo-o)
- Platycerium superbum (o-)
- P. bifurcatum (o-c)
- Micrargus scandens (vo-o)
- Diplazium austrolepis (o-vo)
- Histiopteris incisa (vo)? clear...
- Lindsaea decolorata (o-c)
- Adiantum hispidulum (o)
- A. formosum (o-c)
- Pteris tremula (o-vo)
- Pyrrhonia rupicola (o-c)
- P. confertum (vo)
- Cyathia cooperi (vo)
- C. austrotica (vo)
- C. leichardtiensis (o-vo)
- Marsdenia sp. (R)
- Blechnum cartilaginum (vo-o)
- Davallia pinnata (o)

WASHPOOL S.F.

Caph. 718-722

contd....

R.F. Sample.

Fr. 23/26.

Robert Koopman

8/97.

- =/c *Diospyros pentamera* (o - vo)
- sc/c *Pennantia cunninghamii* (o)
- Citräobacca paniciglomerata* (o - c).
- Wilkiea hughesiana* (o).
- Eupomatia laurina* (vo - c).
- Psychotria lancerottieri* (o).
- Cordyline stricta* (o - c)
- Cordyline pectoralis* (o - vo).
- Solanum aviculare* (vo - o) ditch-side
- Urtica incisa* (vo - o).
- Solanum cinereum* (o) ditch-side.
(tall var. int.)
- Diospyros antedidiae* (vo - o).
- sc/c *Brachychiton acerifolius* (o).
- Hydrocotyle pedicellata* (o - vo).
- Pepperomia* sp. (vol.)
- Tetragastris palmata* (vo).
- sc/c *Polyosma elegans* (vo)
- =/c *P. murrayi* (vo - o).
- sc/c *Guioa engelmanni* (o).
- sc/c *Claoxylon australe* (o).
- sc/c *Scobinia bramii* (vo - o).
- =/c *Cinnamomum oliverii* (vo - o).
- sc/c *Acorus calamus dolichifolium* (o - c). one foliate & tri-foliate (juvenile).
- =/c *Drimys sambucifolia* (o - vo).
- sc/c *Citronella moorei* (vo).
- k. *Eroschimus falcatus* (vo - o).
- *Ficus watkinsiana* (o)
- *F.*
- *Elaeocarpus grandis* (z - o)
- Omalanthus papulifolius (vo).
- k. *Balgia ingophylla* (vo - o).
- *Polygonum cunninghamii* (vo - o).
- *Beilschmiedia obtusifolia* (z - vol).
- *Glossyina ferdinandii* (o - vol).
- !- *Hyparrhenia flava* (vo).
- *Cryptocarya triplinervia* (z - vol).
- *Abrusphyllum ornans* (vo - c) crevices -
- *Centella coprosmoides* var. M. Nollay. (z).
- *Strobocarpus salignus* (o - vol).
- *Viola hederaea* (o).
- c. *Decaspernum humile* (vo - o).

- 2.
- Cyperus tetraphyllum (o - c).
 - Pollia crispata* (vo - c).
 - Denordia pungiglomerata* (o).
 - Calandrinia triplinervia* (vo - o).
 - Denordia* sp. kingianum? X crevices.
 - Denordia gracilis* (o -)
 - D. speciosum (o - vo)
 - D. aenatum (o -)
 - Bulbophyllum exiguum* (vo -)
 - B. schaffnerianum (vo -).
 - Alpinia caerulea* (vo - c).
 - Parietaria* sp. diffinis (vo - o).
 - Elatostema reticulata* (R - o) crevices, rocks ..
 - Parsonsia fulva* (vo - c).
 - Cephaelanthus cephalanthus* (vo - o).
 - Asplenium polyodon* (vo).
 - Tetragynia nitens* (vo - o).
 - Denordia tetraptera* (vo).
 - Oplicanthes* sp. aenatum (vo - o).
 - Pepperomia leptostachys* (o - vo).
 - P. sp. tetraptera - crevices - rocks.
 - Tylophora paniculata* (o) alps ...
 - Sinclairia australis* (vo - o)
 - S. oligophylla (R - vo).
 - Molinia jasmnoidea* (vo -).
 - Sarcocodium* sp. (o)
 - Parsonsia undulata* (vo -).
 - Senna clavigera* (R).
 - Hibiscus splendens* (z)
 - sc. *Hibiscus heterophyllum* (vo - o).
 - Trema aspera* (R - o)
 - Solanum macrocarpon* (z - vo).
 - Brennia dolichifolia* (z - c).
 - Trochocarpus laurina* (R - o - c).
 - sc. *Symplocos thwaitesii* (R)
 - Helichrysum diosmifolium* (vo).

Ur. w. sample ... Ft. 47(a) = [± Ft. 23/26 etc.] join lower upper....

WASHPOOL S.F. Camp. 719-722.

Robert Keayman.
7/97.

- = *Eucalyptus microcarpa* (c)
C. E. *Saligna* (o-c)
I. E. *Acmanoides* (o-c)
I. Lophostemon confertus (vo) ± *E. maculata* (vo-o).
Acacia subfalcata? (vo-o).
Ic. Acacia melanoxylon (o).
Sc. A. *irregularis* var. *irregularis* (o).
Cryptocarya rigida (o).
Solanum aviculare (r).
Trochocarpa laurina (o-c).
Personaria medica (o).
Archishodomysthus bedderi (o).
Psychotria tonkinensis (o-c).
Myrtaceae (o).
Solanum aviculare (r).
Solanum densivestitum (o-c).
Indigofera australis (o).
Pimelea latifolia var. *alii*? (o+s).
Zieria triflorifera (o).
Xanthorrhoea glauca (o-c).
Pimelea linifolia (vo).
Hibiscus heterophyllum (vo-c) - down slope / fire...
Polyosma sambucifolium (o).
P. elegans (vo-o).
Olearia nerostii.
Sonocia laurus var. *lanceolatus* (R-o).
Hedychrysum sp. aff. *scorpioides* (R) check, check specimen?
Bracteola bracteata (o).
Acanthacoma (R-vo).
Solanum solanoides (o).
Solanum furfuraceum (o).
Solanum sp. *conporulata*? (vo-o).
Leptozelina dealbata (vo-o).
Leptozelina australiensis (vo).
Ieranydium dolichophyllum (o-vo).

- Parapleria aurantiaca* (o-c) det.
Diplacodes palmatus (vo-c). det.
Kennedia rubicundula (o).
Hibbertia scandens (o-c).
Rubus rosifolius (R-c).
Grevillea cyathiformis (vo).
Herberbergia violacea (o-c).
Smilax australis (o-c).
S. glycyphylloides (o).
Glycine clandestina (o).
Stephania japonica or *discolor* (o).

- Calochlaena dubia* (o-c).
Pteridium esculentum (o-c).

- Dawsonia superba* (o-c) - strip / burn...
Lomandra longifolia (o+c).
Dianella caerulea (o-c).
Alpinia caerulea (vo-o).
Gymnostachys cernua (vo).
Cymbidium sp. (o-vo).

- Senna clavigera* (o).
Euophaea sphaerium (vo).
Cyperus laevigatus (vo-) check.

..... then integrader for slopes with Ft. 23/26: ... see species lists...
or Ft. 53 ± *Liparia altissima*.... or Ft. 23/26.
information
Dentaria celestroides (vo).
Tacazzea fawcettii (vo-o).
3

WASITPOOL S.F.

Ft. 62 sample. + Ft. 70/74
(open / grassy)

Robert Kooyman
7/17.

- c. *Eucalyptus propinqua* (o-c)
c. E. *carnea* (o)
c. E. *Sideroxylon* (o)
+ c. E. *mollinacina* (vo-o)
c. E. (*Argania*) *maculata* (o-vc) *Adansonia peringueyana* ...
- c. E. sp. aff. *reniformis* (vo).
c. E. *microcarpa* (o-o).
c. E. *Acmenoides* (vo-o).
sc. *Allocasuarina torulosa* (o-c)
Jacksonia sp. *scaparia* (vo-o).
sc. *Acanthosperma irroratum* (2-vo)
sc. A. *minutissimum* (2-o (numerous)).
Indigofera sp. *australis* (o-vo).
Solanum sp. *furfuraceum* (vo).
Lepidium sp. *juncinum* subsp. *variegatum* (vo-e).
Solanum sp. *dusmetianum* (o).
Xanthosoma glaucum (vo-o).
Richardia brasiliensis (2-vo).
Goodenia rotundifolia (o-vo).
Crassula schoenleinii (o-vo).
Viola betonicifolia (o).
Oreasteria (sp.) *hispida* (vo).
Bracteola bracteola (vo).
Geranium solanderi (vo-o).
Viola hederacea (vo).
Solanum cicerinum (e).
Pimelea linifolia var. (2-vo).
Olearia neretiae (2-vo).
Solanum capsicoides (vo).
Solanum pringleyllum (vo).
Macrozamia fraseri (vo-o).
Abutilon sp. *oxycephalum* (2-vo).
Plectranthus parviflorus (vo-).
Pittosporum revolutum (2-vo) - rocky
Gaultheria (*miquelianum*) (2) rocky area ...
- *Propinquum* ✓

- Imperata cylindrica* (o-vc).
Poa labillardiana var. *lamb.* (o-vc).
Cymbopogon sp.
Enneapterygius sp. ?
Themeda australis (o-c).
Bolbitis heterophylla sp. (*decipiens*?) (o).
Dianella campanulata var. (2-vo).
Lomandra multiflora (vo).

Glycine clandestina (o).
Hardwickia violacea (o).
Desmodium rhytidophyllum (o).
Galactia sp. ?
Eurytrophus latifolius (o).
Kennedia rubicunda (vo).
Hibbertia scandens (vo-o).
Celastus subspicatus (2-vo).
Rubus parvifolius (vo).

Chileanthus sieberiana (o-vo).
Chileanthus sp. (o-a) *rocky area* ...

WASHPOOL S.F.

Riparian SAMPLE.

S.E. Coenuee CHPT. 722
lower alt.

Robert Kooyman.
7/97. - 8/97.

- Fr. 70/74, #2 adjacent.
- c. *Zygostemon confertus* (c)
 - c. *Eucalyptus saligna* (o)
 - c. *E. (Coriacea) intermedia* (vo)
 - c. *E. microcarpa* (vo)
 - c. *Sympodia glomerifera* (o-vo).
 - C. *Elaeocarpus granitis* (z).
 - sc/c *Livistona australis* (vo-o).
Eupomatia laurina (o-c).
 - :/sc *Bachmannia myrtifolia* (vo-c).
 - c *Acacia irrorata* var. *irrorata* (o).
 - sc. *Acacia melanoxylon* (o)
 - sc. *Gleditsia ferdinandii* (o-c).
 - sc. *Hymenoporus flavidum* (vo).
Eupomatia laurina (o-c)
 - Cryptocarya rigidula*(o)
 - c. *Trochocarpa laurina* (o-c)
 - Pseudowintera variabilis* (o).
 - Pimelea latifolia* var. *glauca* (o).
 - .. *Acronychia oblongifolia* (vo-o).
 - Rapanea variabilis* (o).
 - Daphnandra* sp. A (vo).
 - Diospyros australis* (vo-o).
 - Ficus coronata (o).
 - Citriobathra paniculata* (o-c).
 - Centella ? *Dichondra repens* (vo).
 - Viola hederacea* (o).
 - Tasmannia spp. ? *insipida*... check specimen! very broad
 - Croton verreauxii* (o-vo). *Cardyline stricta* (o-vo).
 - . *Syzygium australe* (vo-). *Cardyline petiolaris* (o-vo)
 - Notechis longifolia* (o).
 - Lindernia monactylis* (vo-vo).
 - Polyosma elegans* (vo)
 - Pterochloridodon pruinosa* (z-vo).
 - Guioa semiglauca* (vo-o).
 - Glossyodon tomentosum* (o).
 - Bryonia oblongifolia* (vo-o)
 - Trema australis* (vo).
 - Gordonia laurifolia* (vo). (heavy forest).
 - Geranium solanderi* (vo).

- Kunzea rotundifolia (o)
- Horseroechia violacea (o-vo).
- Hibbertia scandens (o-c).
- Dioscorea transversa (o).
- Pandorea pandorana (o-o).
- * Melodinus rosinae (o).
- Marsdenia rostrata (o)
- Smitax australis (o)
- Cissus antarctica (o-vo).
- Derris involuta (o).
- Cissus hypoglauca (o).
- Lathraea decomposita (o-vo).
- Diplazium sp. australis (o).
- Calochlaena dubia (o).
- Christella dentata (o)
- Doodia aspera (o-c).
- Adiantum formosum (vo)
- A. hispidulum (vo-
- Fatsia tremula (vo-o).
- Poa litoralis var. lac. (o-c).
- Lomandra multiflora (o).
- Lomandra longifolia (o-c)

Edge: Specimen:

- Entoloma marginans* (o)
- Dianella caerulea* (o-)
- Optimilia* sp. (caerulea) (o).
- Alpinia caerulea* (vo-o).
- Alpinia brisbanensis* (vo).
- Ellatostema reticulatum* (o).
- Cyperus tetraphyllus* (vo-o).
- Platycerium superbum* (z-o).
- Platycerium bifurcatum* (o)
- Pyroria confluens* (o) *Trochocarpa*.
- P. rupestris
- Dendrobium cinnabarinum* (o-vo).
- Calanthe triplicata* (vo).
- Davallia pycnophylloidea* (o-vo).
- Lantana camara* (z-o).
- Stephania japonica* var. *diocler* (o)
- Scrophularia harveyana* (vo-o).
- Geitonoplesium cymosum* (o).
- Clematis aristata* (vo-o).
- Rubus radicans* (z-o)
- R.
- Cayratia clematidea* (vo).
- Glycine clandestina* (vo).
- Marsdenia flava* (o-vo)
- Rhipsalis* sp. *albida* (z-o).
(small leaved form).

WASHPOOL S.F.

Riparian sample cont'd....

Low alt. 722, 718.

Robert Keayman
8/17.

- Hovea ^{*} acutifolia (R-o).
Vitex lucidula (o).
Abrophyllum ornans (o).
Ex. Baloghia integrifolia (vo-o).
Maytenus (o).
Pratia purpurea (vo-o).
Oxalis sp. (vo-o).
Anisotoma biflora (vo-)
sc. Eroschimia falcata (R-o).
Empetrum bennetti (n).
sc. Aleurocanthoceras (vo-).
Hydrocotyle pedicellata (o-vo).
Pellia crispata (vo-o).
Hovea ^{*} acutifolia (R-o) - specimen...
upstream → 100m... RF →
sc. Ceratopteris apetala (vo-)
sc. Quintinia verdonii (o-)
Ex. Tristerix sp. (vo-)
sc. Clerodendron austrole (o).
Ex. Syzygium decumum (vo-o).
sc. Rhodomyrtus rubra (o).
sc. Sodapia braunii (vo).
sc. Neottiya dealbata (vo-o).
Endiandra mulleri (vo-o).
Anopterus madagascariensis (vo-o).
Clerostilbe cunninghamii (vo-o).
Pennantia cunninghamii (vo-o).
Doryphora saccifera (vo-)
Polyosma cunninghamii (vo-).
Schizomeria ovata (vo-o).
Calochlaena paniculata (vo-o).

..... then add RF sample upstream NVF & SNVF....

- Acrotriche latifolia (vo-o).
Dentaria heterodoxa (vo).
Gaultheria leucocalyx (vo-).
Urtica incisa (vo-o).
Ilex decidua tomentosum (o-vo).
Pithecellobium revolutum (o).
Elaeocarpus oblongatus (vo).

sc/c. Alphitonia excelsa (vo).

WASHPOOL S.F.

Ft. 47 → Ft. 163 . Capt. 721

open, grassy ... ridge top ... high alt.

31/7/97.

Robert Kooyman.

- Eucalyptus microcarpa (o-c)
E. acmenoides (o-c)
E. saligna (o-vo)
E. campanulata (o-c)
E. laevopinna (o-vo).

- sc. Acacia melanoxylon (o-vo)
c. Acacia irrorata ssp. irrorata (o-)
Allocasuarina torulosa (vo-c).
Trochocarpa laurina (vo-o).

- Syzygium latifolium (o-vo).
Pinus latifolia var. ciliata (o-vo).
Aconis acana (o-r) undisturbed area...
- Cryptocarya rigidula (R-o).
Taygetis sp. (vo-o).
Pinus linifolia var. (vo).
Zieria sp. arborescens (vo).
Xanthorrhoea sp. glauca (o-c).
Encropagan lanceolata (o-c)
Schizodonthus leckleri (vo-o).
Psychotria longicoides (vo-g).
Seringia oblongifolia (o).
Olearia densiverticillata (o).
Adigofera austrolio (vo-o).
Senecio linearifolius X? (vo-o). specimen: S. lautus var. lanceolatus (R-o).

- Iola betonicifolia (o-c).
Ericium sp. solanifoli (o).
Lythrum sp. (o).
Olearia cinereum (vo-c)
(var?)
Olearia inaequilaterum? (vo-e).
Haplostephanus undulatum (e-vo).
- foliate Legume: Fabaceae - specimen... (o-c)
Senecio amygdalifolius (vo).
- panic: specimen - yellow flowers
Zygophyllum ilicifolium (vo-c).
Adinandra latifolia (o-c) 2m. / glabrescent form ... (higher alt.).

- Poa labillardieri var. lab. (ve).
Imperata cylindrica (o-vc).
Themeda australis (o).
Lomandra longifolia spicata? (o).
L. longifolia (o).
Dianella caerulea (o-c).
Lomandra multiflora (o).
Alpinia caerulea (2-vo) moist.
Panicum avantia (vo); R.
Smilax australis (vo).
Celerium subspicatum (o).
Hardenbergia violacea (o-c).
Desmodium rhytidophyllum (o).
Grevillea sp. ?
Smilacina glyciphylla (vo-o).
Kunzea rubicunda (o).
Rutus parviflora (o).
Hibbertia scandens (o).
Rutus racemiflora (o-vo)
Rubus moorei (o).
R. hillii (o).
Auranticarpa blackii (vo-e).
Glycine clandestina (o).
Adiantum formosum (o-vo).
Doodia aspera (o).
Blechnum cartilaginum (vo-o).
Calochlaena dubia (vo-o).
Pteris creticaeum (R-o).
Platycerium bifurcatum (Trachocarpa & Kurnarrea).
Cymbidium spp. (o).
Pyrorchis superflua (o).
P. confusa (vo) Trachocarpa.

- moister areas - : Sarcopetalum harveyanum (o) Cyathula petiolaris (vo-o).
Cissus antarctica (o)
Polyscias elegans (vo)
sc. Livistona australis (e-o).
(+) Calochlaena affinis ... Ft. 23/20, Ft. 21/5. SNF / NVF.)
sc. Cryptocarya microneura (R-o).
sc. Diospyros australis (R-o).
sc. Syncarpia glanduliflora (vo-o)
sc. Calochlaena paniculata (vo-o).
Swainsona fraseri (vo-o).