Perth
Urban
Bushland
Fungi

Bushland Fungi of Lake Gwelup

Written and produced by
Neale L. Bougher, Roz Hart,
Sarah de Bueger & Brett Glossop
Department of Environment and Conservation – Perth Urban Bushland Fungi Project

Looking for fungi in the jarrah forest area

Eyelash fungi are tiny

Learning about the fungi collected

Fungi group busy photographing fungi

PUBF Website : www.fungiperth.org.au

Western Australian Naturalists Club
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Government of Western Australia Department of Environment and Conservation
Urban Bushland Council WA Inc

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Advice about the identity of the fungi was provided by Dr Neale Bougher, Mycologist. Organisational and technical support was provided by officers on the PUBF project – Roz Hart, Sarah de Bueger, and Brett Glossop.

Photos and field assistance by PUBF participants and the Friends of Lake Gwelup

PUBF Website : www.fungiperth.org.au

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This report presents data resulting from a Perth Urban Bushland Fungi (PUBF) Project event held on 19 July 2008 at Lake Gwelup Bushland - an urban bushland in the Perth Metropolitan Region in southwest Western Australia. The event was organised and operated with the assistance of the Friends of Lake Gwelup and the Northern Suburbs Branch of the Western Australian Naturalists' Club, who provided hot soup and sustenance after the walk. Forty six people attended the event. These participants were divided into five foray groups, led by Margaret Langley and Derek Mead Hunter; Elaine Davison and Wayne Eddy; Jolanda Keeble and Louise Little; Joe Froudist and Phylis Robertson; Mark Brundrett and Kirsten Tullis; all volunteer Leaders from the PUBF Project. With assistance from the Fungi Leaders, the fungi collected were sorted and some were vouchered for permanent lodgement at the Western Australian Herbarium. Mycologist Neale Bougher identified the fungi and talked about their features and their roles in helping to keep bushlands healthy.

Lake Gwelup

Lake Gwelup Reserve is located on the Swan Coastal Plain about 11 km north-west of central Perth, Western Australia. It encompasses approximately 75 hectares including a natural lake, remnant vegetation and parkland and is designated as a Bush Forever Site (BF#212) (Government of Western Australia, 2000; Ecoscape, 2002). The bushland occurs on sands derived from Tamala Limestone of the Spearwood Dunes. The vegetation at Lake Gwelup includes woodland dominated by jarrah *(Eucalyptus marginata)*, marri *(Corymbia calophylla)* and tuart *(Eucalyptus gomphocephala*) as well as *Acacia saligna* and *Banksia* species. There are areas of other vegetation types with dominant plants such as sheoaks *(Allocasuarina fraseriana)*, Grey Stinkwood (*Jacksonia furcellata*), paperbarks (*Melaleuca raphiophylla*), and Flooded Gum (*Eucalyptus rudis*). Local residents affiliated with the Friends of Lake Gwelup (home page at http://home.vicnet.net.au/~folg/) are assisting the City of Stirling with the implementation of the City's Lake Gwelup Environmental Management Plan.

Lake Gwelup Bushland Fungi

During the survey at Lake Gwelup in July 2008 a total of 93 records, including 53 different fungi species were recorded, and 18 collections were vouchered into the DEC Western Australian Herbarium (Tables 1, 2). The majority of fungi observed during the survey at Lake Gwelup were decomposer fungi - such as *Bovista*, *Clitocybe* and *Pluteus*.

Phallus hadriani at Lake Gwelup

A cluster of eggs (juvenile fruit bodies) of the decomposer fungus *Phallus hadriani* were found during the survey. Mature fruit bodies of this stinkhorn fungus were found at Lake Gwelup several days after the survey and vouchered (specimen voucher BOUGHER495). A brown, foul-smelling (rotten-meat) slime coating the tips of its fruit bodies attracted various types of blowflies. The spores of *Phallus hadriani* and other stinkhorn fungi are contained within the slime and they are effectively dispersed on the feet of the frenzied flies.

Another decomposer fungus of particular note is a species of *Megalocystidium* (specimen voucher E9216) as the record at Lake Gwelup represents a second record of this fungus in Perth's urban bushlands. The other record is from Lake Cooloongup South in the Rockingham Lakes Regional Park in June 2005 (Bougher *et al.*, 2005). In both bushlands this fungus produced extensive flat pinkish-grey sheets on the bark of dead and living paperbarks (*Melaleuca raphiophylla*). Further records are required to determine if this fungus consistently favours such an apparently specialist niche. *Mycena clarkeana* is another fungus that appears to favour the bark of melaleucas fringing lakes in Perth including Lake Gwelup, Star Swamp, Canning River, and Paganoni Swamp.

No pathogenic fungi were observed during this survey, other than the Ghost Fungus – *Omphalotus nidiformis* - which may act as a weak pathogen or as a decomposer. The pathogenic Australian Honey Fungus *Armillaria luteobubalina* was not observed during the survey, and so far is unknown at Lake Gwelup (Ecoscape, 2002). However this fungus is widespread throughout the Perth region and may well occur at Lake Gwelup.

Only six beneficial mycorrhizal fungi were recorded, representing the genera *Amanita, Clavulina, Dermocybe, Cortinarius*, and *Laccaria* (2 species). No mycorrhizal truffle fungi were observed during the survey. The lack of truffles is not surprising because the survey was focussed on finding above-

ground fungi, and it is likely that at least some species of native truffles do occur in the bushland at Lake Gwelup.

The presence of *Coprinopsis* cf. *stangliana* at Lake Gwelup (specimen voucher E9219) points to the highly disturbed condition of parts of the bushland. This species is considered to be a recent introduction into the region and appears to be spreading in many bushlands (Bougher, 2006; and see this fungus on page J-5 of the on-line field book - Bougher, 2007). At Lake Gwelup it was observed during the fungi survey in an area where some of the earth had been dug up and some sand had been dumped.

Some of the fungi recorded in this survey remain unidentified pending further collections or more detailed comparative analyses. Many of the fungi could only be identified to genus level. This is because detailed taxonomic examinations are yet to be completed, or perhaps some are undescribed species. Far more fungi are likely to occur at Lake Gwelup than the 54 species recorded in this inaugural survey. The Friends of Lake Gwelup have included in their web site a gallery of photographs of fungi at Lake Gwelup (see http://home.vicnet.net.au/~folg/). Four fungi are listed on the site (as at Oct. 2008), including *Paxillus* (probably *Austropaxillus*) a fungus which was not observed in the current fungi survey. Because of the unpredictable nature of fungi fruiting, surveys need to be conducted over many years in order to capture the biodiversity of fungi present in any given area.

Lake Gwelup has about 80 native plant species comprising a wide range of vegetation types (Government of Western Australia, 2000; Ecoscape, 2002) that undoubtedly influence the presence, abundance and spatial distribution of fungi species at this bushland. Management and general interest in biodiversity of Lake Gwelup (as with other parts of the Perth region) in the past has primarily focussed on flora and fauna conservation, and this will probably continue to be the case. However, Flora, Fauna and Fungi may need to considered together for future management. Fungi have crucial ecological roles for maintaining bushland health, including linkages between the 3 F's.

Lake Gwelup is vested and managed under the City of Stirling. Under a discussion of "biotic environmental values" the City's Greenplan (City of Stirling, 2002) recognises the incredible diversity and roles of less conspicuous biota such as fungi in contributing to "the overall performance of the total ecosystem". The Greenplan includes listings of plants and animals in the City's bushlands but does not include a list of fungi. The current Lake Gwelup Reserve Management Plan (Ecoscape, 2002) lists plants and animals, and mentions the need to develop an inventory of fungi at Lake Gwelup. Indeed, an increased level of knowledge about the fungi present at Lake Gwelup is required as a basis for documenting and understanding the fungi, and in turn for helping to manage the bushland's Flora and Fauna.

References

Bougher, N.L. (2006). *Coprinopsis stangliana* – a recently introduced fungus expanding in urban bushlands of the Perth region. *Nuytsia* 16: 3-10.

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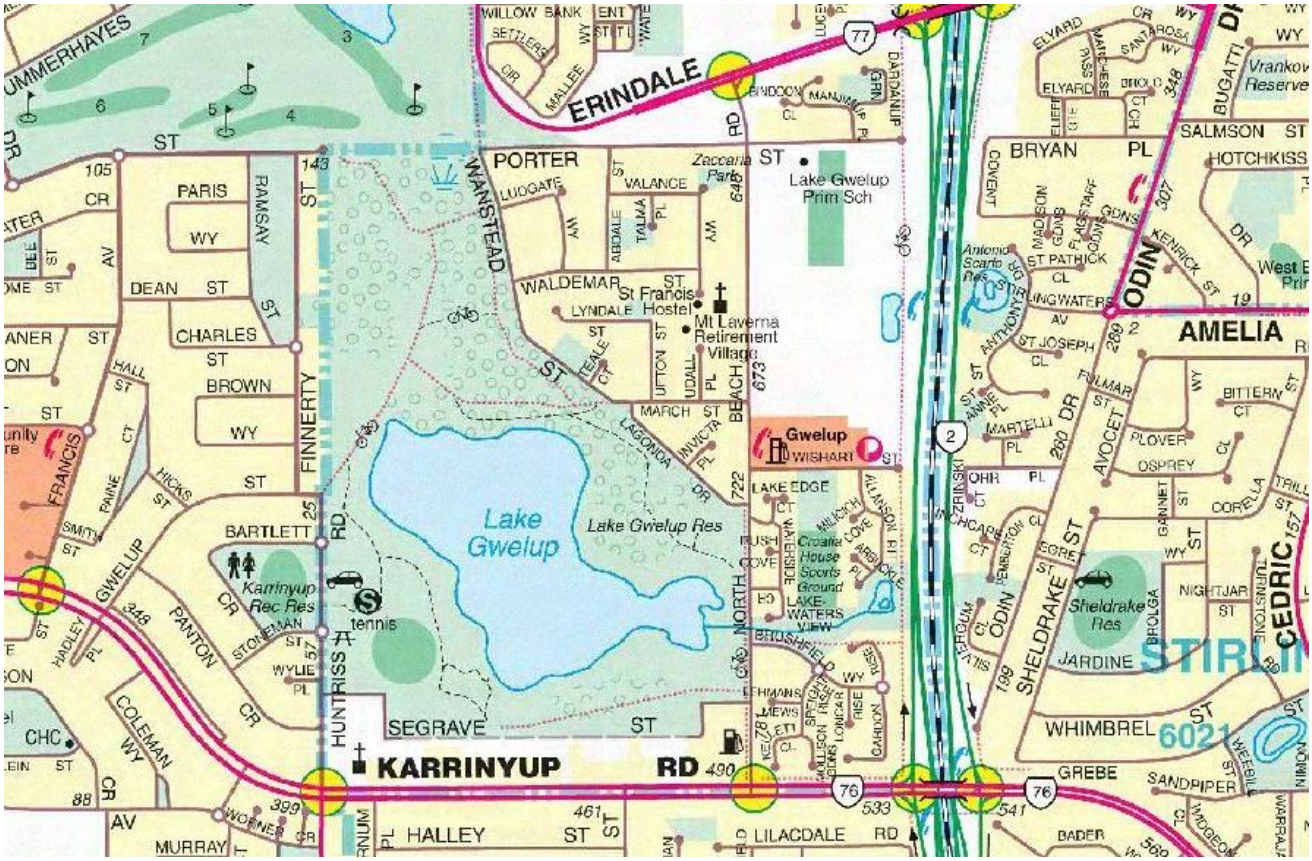


StreetExpress Map showing the location of Lake Gwelup Bushland, Bush Forever Site 212.

Aerial photo showing the colour coded tracks walked by the five groups on 19 July 2008.

Table 1: Lake Gwelup Bushland Fungi List: 19 July 2008

Life Mode Key: M = Mycorrhizal, S = Saprotrophic (Decomposer), S/P = Saprotrophic and Parasitic. Life Mode allocation is based on probability only, as many fungi have not been tested.

Field Book Page # refers to the Perth Urban Bushland Fungi Field Book which is available for downloading from the project website at www.fungiperth.org.au

Fungimap Target: refers to species that have been selected by the Australia-wide mapping project, Fungimap, for collecting detailed records to be compiled into distribution maps. See Fungimap on-line at www.rbg.vic.gov.au/fungimap and the book *Fungi Down Under* by Grey, P. and Grey, E (2005).

Scientific Name	Common Name	Form	Habitat	Life Mode	Fungimap Target Species	Field Book Page #	Specimen ID
***Amanita* sp.**		mushroom	litter/ground	M			3906, 3916
Arcyria cinerea		slime mold	litter/ground	S			3949
Asterostroma persimile	**Rosy Skin Fungus**	resupinate	dead wood	S		O-2	3943
***Bovista* sp.**		puffball	litter/ground	S			3960
Calocera guepinioides	**Scotsman's Beard**	jelly fungus	dead wood	S		Q-1	3892, 3954
***Clavulina* sp.**		coral	litter/ground	M			3875
Clitocybe semiocculta	**Shy Funnel Cap**	shell	dead wood	S		J-4	3895
***Clitocybe* sp.**		mushroom	litter/ground	S			3873, 3878 3896, 3900 3908, 3920 3945 3947 3956
Coltricia cinnamomea	**Tough Cinnamon Fungus**	mushroom	litter/ground	S		N-1	3886
Coprinopsis* cf. *stangliana	**WA Magpie Fungus**	mushroom	litter/ground	S		J-5	3882
***Coprinus* sp.**		mushroom	litter/ground	S			3880
***Cortinarius* sp.**		mushroom	litter/ground	M			3897
Cortinarius vinaceolamellatus		mushroom	litter/ground	M			3914
Crepidotus eucalyptorum	**Eucalypt Crepidotus**	shell	dead wood	S		J-13	3898
***Crepidotus* sp.**		shell	dead wood	S			3903, 3955
***Dacrymyces* sp.**		jelly fungus	dead wood	S			3941
***Dasyscyphus* sp.**		cup	dead wood	S			3910
Dermocybe clelandii		mushroom	litter/ground	M			3883
***Exidia* sp.**		jelly fungus	dead wood	S			3889, 3904
***Galerina* sp.**		mushroom	litter/ground	S			3885, 3928

Scientific Name	Common Name	Form	Habitat	Life Mode	Fungimap Target Species	Field Book Page #	Specimen ID
							3930, 3958
Gymnopilus allantopus	**Golden Wood Fungus**	mushroom	dead wood	S		J-15	3881, 3890 3915
Gymnopilus* cf. *purpuratus		mushroom	dead wood	S			3926
Gymnopilus purpuratus		mushroom	dead wood	S			3951
***Gymnopilus* sp.**		mushroom	dead wood	S			
Harknessia uromycoides	**Tuart Nut Fungus**	pustules	dead wood	S		C-1	3869, 3899
Henningsomyces candidus	**Miniature Chimney Pots**	tubular	dead wood	S		R-1	3884
Hexagonia vesparia	**Wasp Nest Polypore**	bracket	dead wood	S		N-3	3938
Laccaria lateritia	**Brick Red Laccaria**	mushroom	litter/ground	M		J-17	3868, 3905
***Laccaria* sp.**		mushroom	litter/ground	M			3893, 3917 3932
Leocarpus fragilis		slime mould	dead wood	S			3871
***Lycoperdon* sp.**		puffball	litter/ground	S			3921
***Megalocystidium* sp.**		resupinate	dead wood	S			3959
Mycena clarkeana	**Clarke's Pixie Cap**	mushroom	bark, tree	S		J-38	3923, 3952
***Mycena* sp.**		mushroom	litter/ground	S			3870, 3876 3877, 3891 3894, 3907 3924, 3946 3953, 3957
Mycena vinacea		mushroom	litter/ground	S			3935
Omphalotus nidiformis	**Ghost Fungus**	mushroom	dead wood	S/P	Yes	J-21	3879
Phallus hadriani		phalloid	litter/ground	S			3939
***Phellinus* sp.**		bracket	dead wood	S			3922
Pluteus atromarginatus		mushroom	dead wood	S			3931
Pluteus lutescens		mushroom	dead wood	S			3872
***Pluteus* sp.**		mushroom	dead wood	S			3933
***Psathyrella* sp.**		mushroom	litter/ground	S			3944
Pycnoporus coccineus	**Scarlet Bracket Fungus**	bracket	dead wood	S		N-8	3901, 3925 3950

Scientific Name	Common Name	Form	Habitat	Life Mode	Fungimap Target Species	Field Book Page #	Specimen ID
Schizophyllum commune	**Split Gill Fungus**	shell	dead wood	S	Yes	R-2	3919
***Schizopora* sp.**		resupinate	dead wood	S			3942
Scutellinia scutellata	**Eyelash Cup Fungus**	cup	dead wood	S		A-4	3887
***Tremella mesenterica* group**	**Yellow Brain Fungus**	jelly fungus	dead wood	S	Yes	Q-2	3888, 3902 3909, 3937 3948
Tubaria serrulata		mushroom	litter/ground	S			3874
***Tubaria* sp.**		mushroom	litter/ground	S			3911, 3927
Tubifera ferruginosa	**Strawberry Slime Mould**	slime	dead wood	S			3936
Undetermined Ascomycete		cup	litter/ground	S			3918
Undetermined Jelly Fungus		jelly	dead wood	S			3912
Undetermined Resupinate		resupinate	dead wood	S			3913, 3929 3934
Volvariella speciosa	**Common Rosegill**	mushroom	litter/ground	S	Yes	J-30	3940

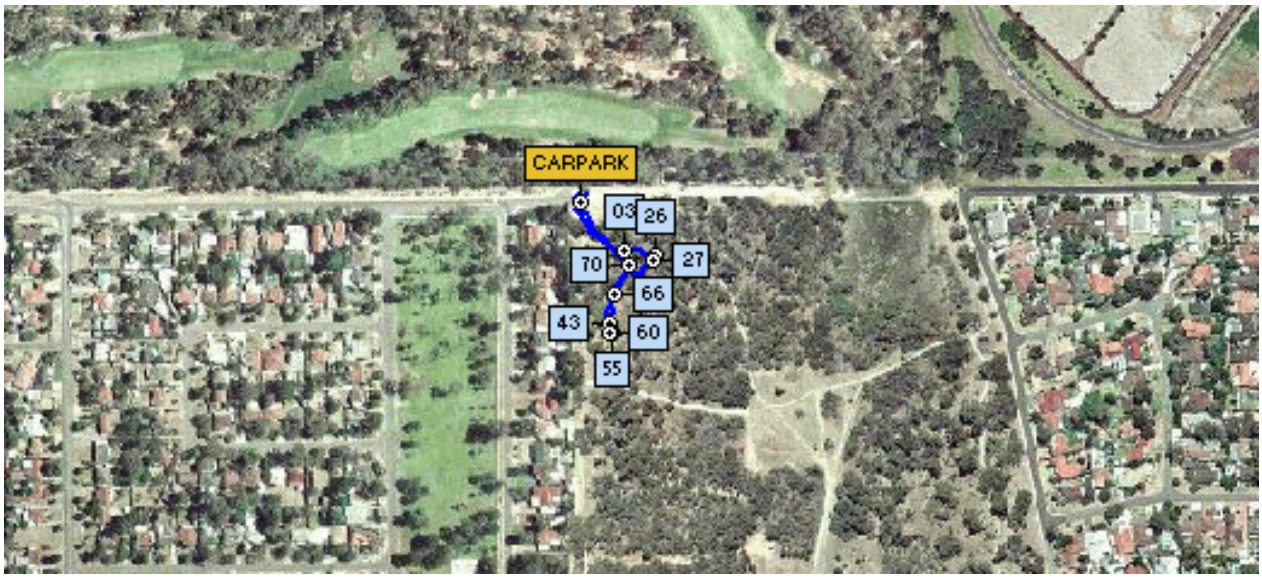
Table 2 : Permanent Vouchered Specimens from Lake Gwelup, 2008

Eighteen of the fungi collected during this event were deposited into the Western Australian Herbarium fungi collection with the following details:

Asterostroma persimile	**Voucher ID:** E9231	**Specimen ID:** 3943
Calocera guepinioides	**Voucher ID:** E9233	**Specimen ID:** 3892
Clavulina sp.	**Voucher ID:** E9229	**Specimen ID:** 3875
Clitocybe sp.	**Voucher ID:** E9221	**Specimen ID:** 3878
Coprinopsis cf. *stangliana*	**Voucher ID:** E9219	**Specimen ID:** 3882
Dasyscyphus sp.	**Voucher ID:** E9220	**Specimen ID:** 3910
Dermocybe clelandii	**Voucher ID:** E9218	**Specimen ID:** 3883
Gymnopilus purpuratus	**Voucher ID:** E9225	**Specimen ID:** 3951
Gymnopilus sp.	**Voucher ID:** E9226	**Specimen ID:** 3881
Harknessia uromycoides	**Voucher ID:** E9228	**Specimen ID:** 3869
Megalocystidium sp.	**Voucher ID:** E9216	**Specimen ID:** 3959
Mycena clarkeana	**Voucher ID:** E9230	**Specimen ID:** 3952
Mycena sp.	**Voucher ID:** E9227	**Specimen ID:** 3957
Mycena vinacea	**Voucher ID:** E9217	**Specimen ID:** 3935
Psathyrella sp.	**Voucher ID:** E9223	**Specimen ID:** 3944
Schizopora sp.	**Voucher ID:** E9232	**Specimen ID:** 3942
Scutellinia scutellata	**Voucher ID:** E9224	**Specimen ID:** 3887
Tubaria serrulata	**Voucher ID:** E9234	**Specimen ID:** 3874

Georeferenced Track and Photos

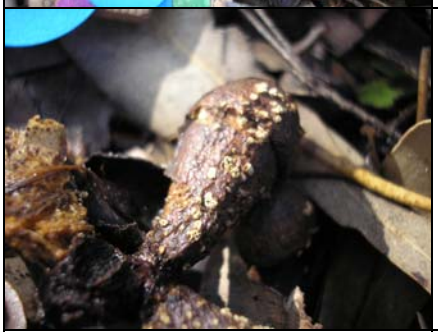
Margaret Langley and Derek Mead-Hunter's group, Lake Gwelup Fungi walk, 19 July 2008.



The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name that correlates with the site on the map above.

Event: Lake Gwelup Date: 19/07/2008
Group Number: 248 Leader Margaret Langley and Derek Mead-Hunter
Photographer: Roz Hart

03 ***Laccaria lateritia*** **Brick Red Laccaria**
Specimen ID: 3868
Amongst litter in *Eucalyptus marginata-Eucalyptus gomphocephala* (jarrah-tuart) woodland.
Latitude: 31° 52' 15.2"South Longitude: 115° 47' 16"East
19/07/2008 Image: LG86_248RH03

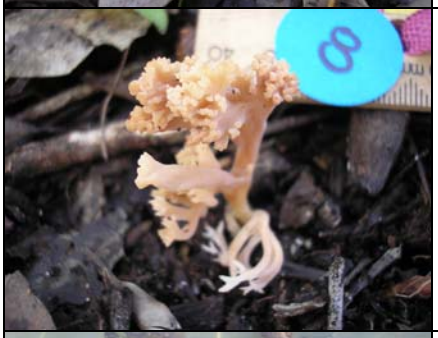


06 ***Harknessia uromycoides*** **Tuart Nut Fungus**
Specimen ID: 3869
Growing on dead tuart nut in jarrah-tuart woodland.
Latitude: 31° 52' 15.2"South Longitude: 115° 47' 16"East
19/07/2008 Image: LG86_248RH06
Vouchered WA Herbarium: **E9228**

08 ***Leocarpus fragilis*** **Slime Mould**
Specimen ID: 3871
On eucalyptus leaf amongst litter in open jarrah-tuart woodland.
Latitude: 31° 52' 15.2"South Longitude: 115° 47' 16"East
19/07/2008 Image: LG86_248RH08

11 ***Pluteus lutescens***
Specimen ID: 3872
Amongst litter in open jarrah-tuart woodland.
Latitude: 31° 52' 15.2"South Longitude: 115° 47' 16"East
19/07/2008 Image: LG86_248RH11

16 ***Tubaria serrulata***
Specimen ID: 3874
On dead wood in open jarrah-tuart woodland.
Latitude: 31° 52' 15.8"South Longitude: 115° 47' 16.2"East
19/07/2008 Image: LG86_248RH16
Vouchered WA Herbarium: **E9234**



18 ***Clavulina*** **sp.**
Specimen ID: 3875
Growing in sand in open jarrah-tuart woodland.
Latitude: 31° 52' 15.8"South Longitude: 115° 47' 16.2"East
19/07/2008 Image: LG86_248RH18
Vouchered WA Herbarium: **E9229**

19 ***Mycena*** **sp.**
Specimen ID: 3876
Growing in sand in open jarrah-tuart woodland.
Latitude: 31° 52' 15.8"South Longitude: 115° 47' 16.2"East
19/07/2008 Image: LG86_248RH19

20 ***Mycena*** **sp.**
Specimen ID: 3877
On fallen branch in open jarrah-tuart woodland.
Latitude: 31° 52' 15.8"South Longitude: 115° 47' 16.2"East
19/07/2008 Image: LG86_248RH20

21 ***Clitocybe*** **sp.**

Specimen ID: 3878
Growing on buried tuart nuts in open jarrah-tuart woodland.
Latitude: 31° 52' 15.8"South Longitude: 115° 47' 16.2"East
19/07/2008 Image: LG86_248RH21
Vouchered WA Herbarium: **E9221**

26 ***Omphalotus nidiformis*** **Ghost Fungus**

Specimen ID: 3879
Growing at the base of a live tuart in open jarrah-tuart woodland.
Latitude: 31° 52' 15.4"South Longitude: 115° 47' 17"East
19/07/2008 **Fungimap Target** Image: LG86_248RH26

27 ***Coprinus sp.***

Specimen ID: 3880
On living tree in open jarrah-tuart woodland.
Latitude: 31° 52' 15.6"South Longitude: 115° 47' 17.1"East
19/07/2008 Image: LG86_248RH27

29 ***Gymnopilus allantopus*** **Golden Wood Fungus**

Specimen ID: 3881
Growing on dead woody litter in open jarrah-tuart woodland.
Latitude: 31° 52' 15.8"South Longitude: 115° 47' 16.3"East
19/07/2008 Image: LG86_248RH29
Vouchered WA Herbarium: **E9226**

38 ***Coprinopsis*** **cf.** ***stangliana*** **WA Magpie Fungus**

Specimen ID: 3882
Amongst litter in open jarrah-tuart woodland.
Latitude: 31° 52' 16.1"South Longitude: 115° 47' 15.9"East
19/07/2008 Image: LG86_248RH38
Vouchered WA Herbarium: **E9219**

43 ***Dermocybe clelandii***

Specimen ID: 3883
Growing amongst litter in open jarrah-tuart woodland.
Latitude: 31° 52' 17.2"South Longitude: 115° 47' 15.6"East
19/07/2008 Image: LG86_248RH43
Vouchered WA Herbarium: **E9218**

45 ***Henningsomyces candidus*** **Miniature Chimney Pots**
Specimen ID: 3884
Growing on small, partly buried log in open jarrah-tuart woodland.
Latitude: 31° 52' 17.2"South Longitude: 115° 47' 15.7"East
19/07/2008 Image: LG86_248RH45

55 ***Galerina*** **sp.**
Specimen ID: 3885
Growing near *Xanthorrhoea* sp. amongst moss in open jarrah-tuart woodland.
Latitude: 31° 52' 17.5"South Longitude: 115° 47' 15.7"East
19/07/2008 Image: LG86_248RH55

60 ***Coltricia cinnamomea*** **Tough Cinnamon Fungus**
Specimen ID: 3886
Growing on dead, burnt wood in open jarrah-tuart woodland.
Latitude: 31° 52' 17.5"South Longitude: 115° 47' 15.7"East
19/07/2008 Image: LG86_248RH60

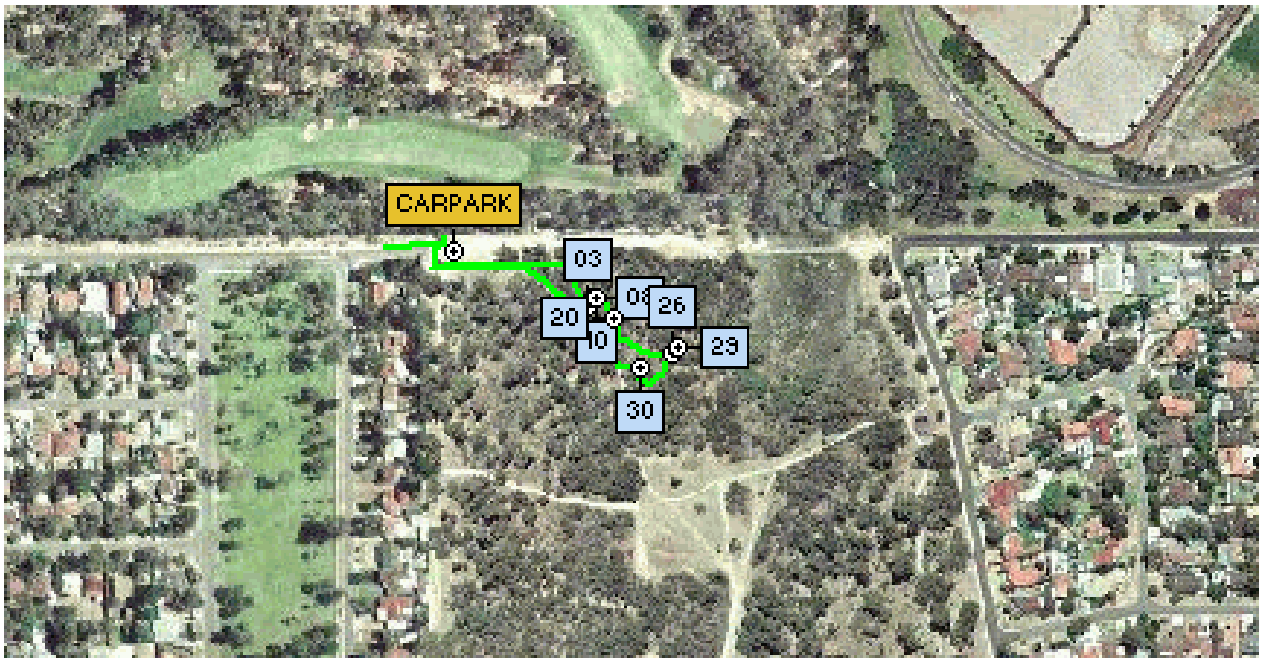
63 ***Scutellinia scutellata*** **Eyelash Cup Fungus**
Specimen ID: 3887
On fallen branch in open jarrah-tuart woodland.
Latitude: 31° 52' 16.8"South Longitude: 115° 47' 15.6"East
19/07/2008 Image: LG86_248RH63
Vouchered WA Herbarium: **E9224**

66 ***Tremella mesenterica*** **group** **Yellow Brain Fungus**
Specimen ID: 3888
On dead wood in open jarrah-tuart woodland.
Latitude: 31° 52' 15.7"South Longitude: 115° 47' 16.3"East
19/07/2008 **Fungimap Target** Image: LG86_248RH66

70 ***Exidia sp.***
Specimen ID: 3889
Growing on dead *Jacksonia furcellata* in open jarrah-tuart woodland.
Latitude: 31° 52' 14.7"South Longitude: 115° 47' 16.3"East
19/07/2008 Image: LG86_248RH70

Georeferenced Track and Photos

Elaine Davison's group, Lake Gwelup Fungi walk, 19 July 2008.



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Event: Lake Gwelup Date: 19/07/2008
Group Number: 249 Leader Elaine Davison
Photographer: Wayne Eddy

03 ***Gymnopilus allantopus*** **Golden Wood Fungus**
Specimen ID: 3890
Amongst litter in *Eucalyptus marginata-Corymbia calophylla* (jarrah-marri) woodland.
Latitude: 31° 52' 15.1"South Longitude: 115° 47' 18.5"East
19/07/2008 Image: LG86_249WE03

08 ***Mycena* sp.**
Specimen ID: 3891
Growing on dead *Banksia grandis* (bull banksia).
Latitude: 31° 52' 14.9"South Longitude: 115° 47' 18.8"East
19/07/2008 Image: LG86_249WE08

09 ***Calocera guepinioides*** **Scotsman's Beard**
Specimen ID: 3892
Growing on dead bull banksia wood in jarrah-marri woodland.
Latitude: 31° 52' 14.9"South Longitude: 115° 47' 18.8"East
19/07/2008 Image: LG86_249WE09
Vouchered WA Herbarium: **E9233**

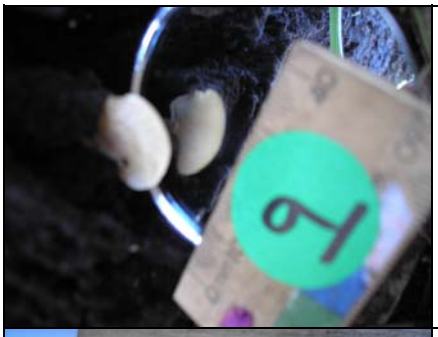
10 ***Laccaria*** **sp.**
Specimen ID: 3893
Amongst litter in jarrah-marri woodland.
Latitude: 31° 52' 14.9"South Longitude: 115° 47' 18.8"East
19/07/2008 Image: LG86_249WE10

13 ***Mycena*** **sp.**
Specimen ID: 3894
Growing on live tree on the outer part of the bark in jarrah-marri woodland.
Latitude: 31° 52' 14.9"South Longitude: 115° 47' 18.8"East
19/07/2008 Image: LG86_249WE13

15 ***Clitocybe semiocculta*** **Shy Funnel Cap**
Specimen ID: 3895
Growing on the bark of dead wood in jarrah-marri woodland.
Latitude: 31° 52' 15.1"South Longitude: 115° 47' 19.1"East
19/07/2008 Image: LG86_249WE15

17 ***Clitocybe*** **sp.**
Specimen ID: 3896
Growing amongst litter and weeds in jarrah-marri woodland.
Latitude: 31° 52' 15.1"South Longitude: 115° 47' 19.1"East
19/07/2008 Image: LG86_249WE17

20 ***Cortinarius*** **sp.**
Specimen ID: 3897
Growing amongst litter and weeds in jarrah-marri woodland.
Latitude: 31° 52' 15.1"South Longitude: 115° 47' 19.1"East
19/07/2008 Image: LG86_249WE20



22 ***Crepidotus eucalyptorum*** **Eucalypt Crepidotus**
Specimen ID: 3898
On the bark of live tuart in jarrah-marri woodland.
Latitude: 31° 52' 15.9"South Longitude: 115° 47' 19.4"East
19/07/2008 Image: LG86_249WE22

24 ***Harknessia uromycoides*** **Tuart Nut Fungus**
Specimen ID: 3899
On tuart nut at the base in jarrah-marri woodland.
Latitude: 31° 52' 15.9"South Longitude: 115° 47' 19.4"East
19/07/2008 Image: LG86_249WE24

26 ***Pycnoporus coccineus*** **Scarlet Bracket Fungus**
Specimen ID: 3901
Growing on dead acacia in jarrah-marri woodland.
Latitude: 31° 52' 16.2"South Longitude: 115° 47' 20.8"East
19/07/2008 Image: LG86_249WE26

28 ***Tremella mesenterica*** **group** **Yellow Brain Fungus**
Specimen ID: 3902
On dead wood in jarrah-marri woodland.
Latitude: 31° 52' 16.2"South Longitude: 115° 47' 20.8"East
19/07/2008 **Fungimap Target** Image: LG86_249WE28

29 ***Crepidotus*** **sp.**
Specimen ID: 3903
On dead acacia in jarrah-marri woodland.
Latitude: 31° 52' 16.2"South Longitude: 115° 47' 20.8"East
19/07/2008 Image: LG86_249WE29

30 ***Exidia*** **sp.**
Specimen ID: 3904
On the bark of dead jarrah in jarrah-marri woodland.
Latitude: 31° 52' 16.5"South Longitude: 115° 47' 20.1"East
19/07/2008 Image: LG86_249WE30

Georeferenced Track and Photos

Jolanda Keeble's group, Lake Gwelup Fungi walk, 19 July 2008.

The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name that correlates with the site on the map above.

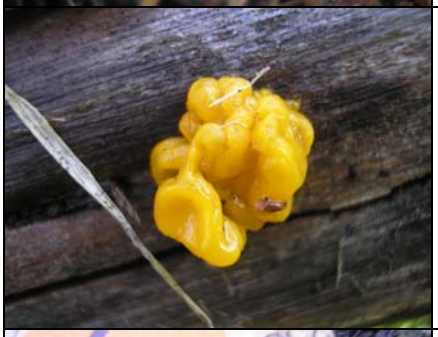
Event: Lake Gwelup Date: 19/07/2008
Group Number: 250 Leader Jolanda Keeble
Photographer: Louise Little

06 *Laccaria lateritia* **Brick Red Laccaria**
Specimen ID: 3905
Growing in sand in disturbed grassland next to the path.
Latitude: 31° 52' 18"South Longitude: 115° 47' 27.3"East
19/07/2008 Image: LG86_250LL06

08 ***Amanita* sp.**
Specimen ID: 3906
Growing in sand in degraded banksia woodland.
Latitude: 31° 52' 18"South Longitude: 115° 47' 27.3"East
19/07/2008 Image: LG86_250LL08

10 ***Mycena*** **sp.**

Specimen ID: 3907
Growing amongst litter in degraded banksia woodland.
Latitude: 31° 52' 18.1"South Longitude: 115° 47' 27"East
19/07/2008 Image: LG86_250LL10



17 ***Tremella mesenterica*** **group Yellow Brain Fungus**

Specimen ID: 3909
On dead wood in degraded banksia woodland.
Latitude: 31° 52' 18.7"South Longitude: 115° 47' 25.8"East
19/07/2008 **Fungimap Target** Image: LG86_250LL17

20 ***Dasyscyphus*** **sp.**

Specimen ID: 3910
Growing on dead *Acacia* sp. in degraded banksia woodland.
Latitude: 31° 52' 18.7"South Longitude: 115° 47' 25.8"East
19/07/2008 Image: LG86_250LL20
Vouchered WA Herbarium: **E9220**

22 ***Tubaria*** **sp.**

Specimen ID: 3911
Amongst moss and litter in degraded banksia woodland.
Latitude: 31° 52' 18.7"South Longitude: 115° 47' 25.8"East
19/07/2008 Image: LG86_250LL22

25 **Undetermined Jelly Fungus**

Specimen ID: 3912
On dead wood in degraded banksia woodland.
Latitude: 31° 52' 18.7"South Longitude: 115° 47' 25.8"East
19/07/2008 Image: LG86_250LL25

26 **Undetermined Resupinate**

Specimen ID: 3913
On dead wood in degraded banksia woodland.
Latitude: 31° 52' 18.9"South Longitude: 115° 47' 25.8"East
19/07/2008 Image: LG86_250LL26

29 ***Cortinarius vinaceolamellatus***

Specimen ID: 3914

Growing under litter in degraded banksia woodland.

Latitude: 31° 52' 18.9"South Longitude: 115° 47' 25.6"East

19/07/2008 Image: LG86_250LL29

31 ***Gymnopilus allantopus*** **Golden Wood Fungus**

Specimen ID: 3915

On dead wood in degraded banksia woodland.

Latitude: 31° 52' 19.7"South Longitude: 115° 47' 25.2"East

19/07/2008 Image: LG86_250LL31

32 ***Amanita*** **sp.**

Specimen ID: 3916

In sand in degraded banksia woodland.

Latitude: 31° 52' 19.8"South Longitude: 115° 47' 25.2"East

19/07/2008 Image: LG86_250LL32

34 ***Laccaria*** **sp.**

Specimen ID: 3917

Amongst litter in degraded banksia woodland.

Latitude: 31° 52' 19.9"South Longitude: 115° 47' 24.8"East

19/07/2008 Image: LG86_250LL34

39 ***Schizophyllum commune*** **Split Gill Fungus**

Specimen ID: 3919

On dead wood in degraded banksia woodland.

Latitude: 31° 52' 20.2"South Longitude: 115° 47' 24.6"East

19/07/2008 **Fungimap Target** Image: LG86_250LL39

40 ***Clitocybe*** **sp.**

Specimen ID: 3920

Growing on dead wood in *Corymbia calophylla* (marri) woodland.

Latitude: 31° 52' 19.9"South Longitude: 115° 47' 26.4"East

19/07/2008 Image: LG86_250LL40

Georeferenced Track and Photos

Phylis Robertson and Joe Froudist's group, Lake Gwelup Fungi walk, 19 July 2008.

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Event: Lake Gwelup Date: 19/07/2008
Group Number: 251 Leaders Phylis Robertson and Joe Froudist
Photographer: Joe Froudist

03 ***Lycoperdon*** **sp.**

Specimen ID: 3921

Growing amongst weedy lawn area.
Latitude: 31° 52' 39.4"South Longitude: 115° 47' 16"East
19/07/2008 Image: LG86_251JF03

04 ***Phellinus*** **sp.**

Specimen ID: 3922

Growing on live *Eucalyptus rudis* at the edge of lake.
Latitude: 31° 52' 35.1"South Longitude: 115° 47' 17.2"East
19/07/2008 Image: LG86_251JF04

05 ***Mycena clarkeana*** **Clarke's Pixie Cap**
Specimen ID: 3923
Growing on dead *Melaleuca rhaphiophylla* near lake.
Latitude: 31° 52' 34.2"South Longitude: 115° 47' 17.9"East
19/07/2008 Image: LG86_251JF05

07 ***Mycena*** **sp.**
Specimen ID: 3924
Growing on dead *Eucalyptus rudis* at the edge of lake.
Latitude: 31° 52' 33"South Longitude: 115° 47' 18.53"East
19/07/2008 Image: LG86_251JF07

08 ***Pycnoporus coccineus*** **Scarlet Bracket Fungus**
Specimen ID: 3925
On dead *Melaleuca rhaphyiophylla* near lake.
Latitude: 31° 52' 32.5"South Longitude: 115° 47' 18.7"East
19/07/2008 Image: LG86_251JF08

09 ***Gymnopilus*** **cf.** ***purpuratus***
Specimen ID: 3926
Growing on dead melaleuca near weedy lake edge.
Latitude: 31° 52' 31.5"South Longitude: 115° 47' 19.3"East
19/07/2008 Image: LG86_251JF09

10 ***Tubaria*** **sp.**
Specimen ID: 3927
Growing on dead melaleuca near weedy lake edge.
Latitude: 31° 52' 31.5"South Longitude: 115° 47' 19.3"East
19/07/2008 Image: LG86_251JF10

11 ***Galerina*** **sp.**
Specimen ID: 3928
Growing on dead *Melaleuca rhaphiophylla* near lake.
Latitude: 31° 52' 31.1"South Longitude: 115° 47' 19.6"East
19/07/2008 Image: LG86_251JF11

12 **Undetermined Resupinate**

Specimen ID: 3929
Growing on dead *Melaleuca rhaphiophylla* near lake.
Latitude: 31° 52' 31.6"South Longitude: 115° 47' 22.2"East
19/07/2008 Image: LG86_251JF12

13 ***Galerina*** **sp.**

Specimen ID: 3930
Growing on dead fallen log near lake.
Latitude: 31° 52' 32.4"South Longitude: 115° 47' 24.6"East
19/07/2008 Image: LG86_251JF13

14 ***Pluteus atromarginatus***

Specimen ID: 3931
Growing on dead log near lake.
Latitude: 31° 52' 32.2"South Longitude: 115° 47' 25.3"East
19/07/2008 Image: LG86_251JF14

18 ***Pluteus*** **sp.**

Specimen ID: 3933
On wood amongst litter by side of track.
Latitude: 31° 52' 31.8"South Longitude: 115° 47' 27.3"East
19/07/2008 Image: LG86_251JF18

19 **Undetermined Resupinate**

Specimen ID: 3934
Growing on living *Eucalyptus rudis*.
Latitude: 31° 52' 31.8"South Longitude: 115° 47' 27.2"East
19/07/2008 Image: LG86_251JF19

20 ***Mycena vinacea***

Specimen ID: 3935
Growing on wood of fallen *Eucalyptus rudis* on edge of wetland.
Latitude: 31° 52' 32.1"South Longitude: 115° 47' 28.8"East
19/07/2008 Image: LG86_251JF20
Vouchered WA Herbarium: **E9217**

21 ***Tubifera ferruginosa*** **Strawberry Slime Mould**
Specimen ID: 3936
Growing on dead wood near side of track.
Latitude: 31° 52' 31.4"South Longitude: 115° 47' 29.2"East
19/07/2008 Image: LG86_251JF21

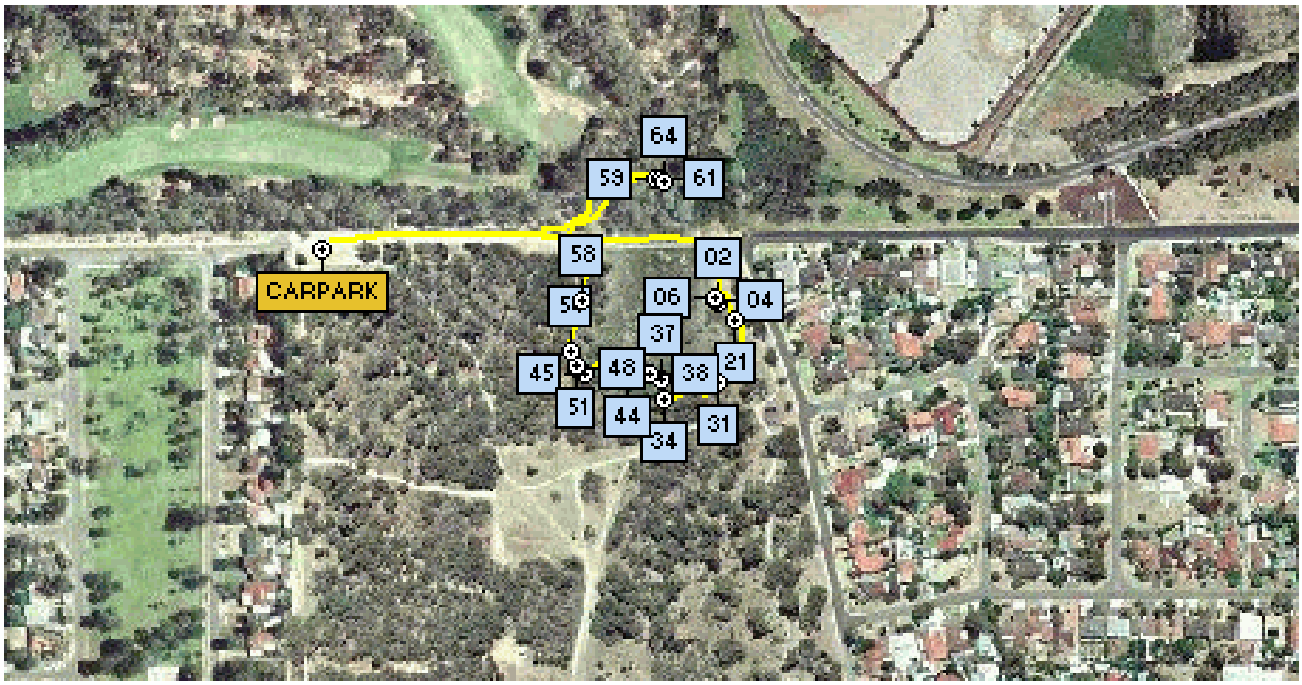
22 ***Tremella mesenterica*** **group** **Yellow Brain Fungus**
Specimen ID: 3937
On dead *Eucalyptus rudis* in woodland on the edge of wetland.
Latitude: 31° 52' 31.9"South Longitude: 115° 47' 33.4"East
19/07/2008 **Fungimap Target** Image: LG86_251JF22

23 ***Hexagonia vesparia*** **Wasp Nest Polypore**
Specimen ID: 3938
On living *Eucalyptus rudis* near path.
Latitude: 31° 52' 31"South Longitude: 115° 47' 34.2"East
19/07/2008 Image: LG86_251JF23

25 ***Phallus hadriani*** **Pink Egg**
Specimen ID: 3939
Emerging amongst weedy area near woodland.
Latitude: 31° 52' 31"South Longitude: 115° 47' 34.2"East
19/07/2008 Image: LG86_251JF25

Georeferenced Track and Photos

Mark Brundrett's group, Lake Gwelup Fungi walk, 19 July 2008.



The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name that correlates with the site on the map above.

Event: Lake Gwelup Date: 19/07/2008
Group Number: 252 Leader Mark Brundrett
Photographer: Kirsten Tullis

02 ***Volvariella speciosa*** **Common Rosegill**
Specimen ID: 3940
In sand and mown grass under *Eucalyptus rudis*.
Latitude: 31° 52' 15.3"South Longitude: 115° 47' 25.9"East
19/07/2008 **Fungimap Target** Image: LG86_252KT02

04 ***Dacrymyces*** **sp.**
Specimen ID: 3941
On dead wood under *Eucalyptus rudis*.
Latitude: 31° 52' 15.3"South Longitude: 115° 47' 25.9"East
19/07/2008 Image: LG86_252KT04

06 ***Schizopora*** **sp.**

Specimen ID: 3942

On dead wood under *Eucalyptus rudis*.
Latitude: 31° 52' 15.3"South Longitude: 115° 47' 25.9"East
19/07/2008 Image: LG86_252KT06
Vouchered WA Herbarium: **E9232**

11 ***Asterostroma persimile*** **Rosy Skin Fungus**

Specimen ID: 3943

Growing on dead wood in mown grass under *Eucalyptus rudis*.
Latitude: 31° 52' 15.35"South Longitude: 115° 47' 25.9"East
19/07/2008 Image: LG86_252KT11
Vouchered WA Herbarium: **E9231**

20 ***Psathyrella*** **sp.**

Specimen ID: 3944

Growing in sand and mown grass under *Eucalyptus rudis*.
Latitude: 31° 52' 15.7"South Longitude: 115° 47' 26.4"East
19/07/2008 Image: LG86_252KT20
Vouchered WA Herbarium: **E9223**

21 ***Pluteus lutescens***

Specimen ID: 3945

On dead wood/litter amongst litter in degraded grassy wetland.
Latitude: 31° 52' 15.7"South Longitude: 115° 47' 26.4"East
19/07/2008 Image: LG86_252KT21

26 ***Mycena*** **sp.**

Specimen ID: 3946

On dead wood amongst litter in degraded grassy wetland.
Latitude: 31° 52' 15.7"South Longitude: 115° 47' 26.4"East
19/07/2008 Image: LG86_252KT26

28 ***Clitocybe*** **sp.**

Specimen ID: 3947

On dead wood in degraded grassy wetland.
Latitude: 31° 52' 15.7"South Longitude: 115° 47' 26.4"East
19/07/2008 Image: LG86_252KT28

31 ***Tremella mesenterica*** **group** **Yellow Brain Fungus**
Specimen ID: 3948
On dead wood in open area of wetland with sedges.
Latitude: 31° 52' 17"South Longitude: 115° 47' 25.9"East
19/07/2008 **Fungimap Target** Image: LG86_252KT31

34 ***Arcyria cinerea*** **Slime Mould**
Specimen ID: 3949
Growing on bark of dead wood in degraded wetland.
Latitude: 31° 52' 17.5"South Longitude: 115° 47' 24.5"East
19/07/2008 Image: LG86_252KT34

37 ***Pycnoporus coccineus*** **Scarlet Bracket Fungus**
Specimen ID: 3950
Growing on very rotten *Melaleuca rhapyiophylla* in wetland.
Latitude: 31° 52' 17.1"South Longitude: 115° 47' 24.4"East
19/07/2008 Image: LG86_252KT37

38 ***Gymnopilus purpuratus***
Specimen ID: 3951
Growing on dead *Melaleuca rhapyiophylla* in wetland.
Latitude: 31° 52' 16.9"South Longitude: 115° 47' 24.2"East
19/07/2008 Image: LG86_252KT38
Vouchered WA Herbarium: **E9225**

44 ***Mycena clarkeana*** **Clarke's Pixie Cap**
Specimen ID: 3952
Growing on dead *Melaleuca rhapyiophylla* in wetland.
Latitude: 31° 52' 16.9"South Longitude: 115° 47' 23.5"East
19/07/2008 Image: LG86_252KT44
Vouchered WA Herbarium: **E9230**

48 ***Calocera guepinioides*** **Scotsman's Beard**
Specimen ID: 3954
Growing on dead *Eucalyptus rudis* in degraded eucalypt-acacia wetland.
Latitude: 31° 52' 16.7"South Longitude: 115° 47' 22.1"East
19/07/2008 Image: LG86_252KT48

51 ***Crepidotus*** **sp.**

Specimen ID: 3955
On dead *Eucalyptus rudis* in degraded eucalypt-acacia wetland.
Latitude: 31° 52' 16.7"South Longitude: 115° 47' 22.1"East
19/07/2008 Image: LG86_252KT51

54 ***Clitocybe*** **sp.**

Specimen ID: 3956
Amongst litter in sand of creekline/drain in degraded eucalypt-acacia wetland.
Latitude: 31° 52' 16.3"South Longitude: 115° 47' 21.9"East
19/07/2008 Image: LG86_252KT54

58 ***Mycena*** **sp.**

Specimen ID: 3957
Amongst litter in sand of creekline/drain in degraded eucalypt-acacia wetland.
Latitude: 31° 52' 15.2"South Longitude: 115° 47' 22.3"East
19/07/2008 Image: LG86_252KT58
Vouchered WA Herbarium: **E9227**

59 ***Galerina*** **sp.**

Specimen ID: 3958
Growing on dead melaleuca in wetland.
Latitude: 31° 52' 12.4"South Longitude: 115° 47' 24.3"East
19/07/2008 Image: LG86_252KT59

61 ***Megalocystidium*** **sp.**

Specimen ID: 3959
On the bark of dead melaleuca in wetland.
Latitude: 31° 52' 12.5"South Longitude: 115° 47' 24.5"East
19/07/2008 Image: LG86_252KT61
Vouchered WA Herbarium: **E9216**

64 ***Bovista*** **sp.**

Specimen ID: 3960
Growing on dead melaleuca in wetland.
Latitude: 31° 52' 12.5"South Longitude: 115° 47' 24.5"East
19/07/2008 Image: LG86_252KT64