

Perth Urban Bushland Fungi

Queens Park Bushland Fungi Report 2006

Written and produced by

Neale L. Bougher, Roz Hart and Sarah de Bueger

Department of Environment and Conservation — Perth Urban Bushland Fungi Project



Photographing the fungi



Recording fungi in the bushland



Examining the fungi collected



Small people searching for fungi

PUBF Website: www.fungiperth.org.au











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Advice about the identity of the fungi was provided by Dr Neale Bougher, Mycologist, organisational support was provided by Roz Hart and Sarah de Bueger.

Photos and field assistance by PUBF participants

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PUBF Website: www.fungiperth.org.au

Thirty seven people attended the Perth Urban Bushland Fungi (PUBF) Project walk held at Queens Park Bushland on 23 July 2006.

The walk was organised with the assistance of the Friends of Queens Park Bushland. There were five groups led by Roz Hart and Rebecca Zappia; Anthony Francis and Louise Little; Joe Froudist; Phylis Robertson and Neil Goldsborough; and Jolanda Keeble and Tanja Lambe, all volunteer Fungi Leaders from the PUBF Project. Mycologist Neale Bougher identified and talked about the fungi collected at the conclusion of the walk.

This event has allowed us to produce the **first ever inventory of fungi for Queens Park Bushland**. This list represents a very small portion of the fungi which are likely to be present in this bushland. Due to the nature of fungi, which fruit irregularly and intermittently, it will be necessary to conduct many such surveys over different days in the fungi season as well as in successive years to produce an accurate inventory of the fungi present in this valuable urban bush reserve.

Queens Park Bushland Fungi: 23 July 2006

Unusually low rainfall in the period prior to this survey greatly affected the abundance and diversity of fungi observed in the survey. However, 25 species of fungi were recorded. These include decomposer fungi such as the Golden Wood Fungus - *Gymnopilus allantopus*, the Scarlet Bracket Fungus - *Pycnoporus coccineus*, and the Shy Funnel Cap - *Clitocybe semiocculta*. Some beneficial mycorrhizal fungi were also found such as an Earthball - *Scleroderma* species, a Fibre Cap - *Inocybe* species, and a Coral Fungus - *Ramaria* species. Another notable species found during the survey is *Omphalotus nidiformis* - the Ghost Fungus, which glows in the dark. The overlapping clusters of fan or shell shaped fruit bodies of the Ghost Fungus occur on living trees or rotting stumps of a wide range of trees such as banksias, eucalypts, peppermints, wattles and pines.

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 in Queens Park Bushland than the 25 species recorded in this inaugural 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.

<u>Life Mode Key</u>: M = Mycorrhizal, S = Saprotropic (Decomposer), S/P = Saprotrophic and Parasitic **Life Mode** is probable only as many fungi have not been tested.

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

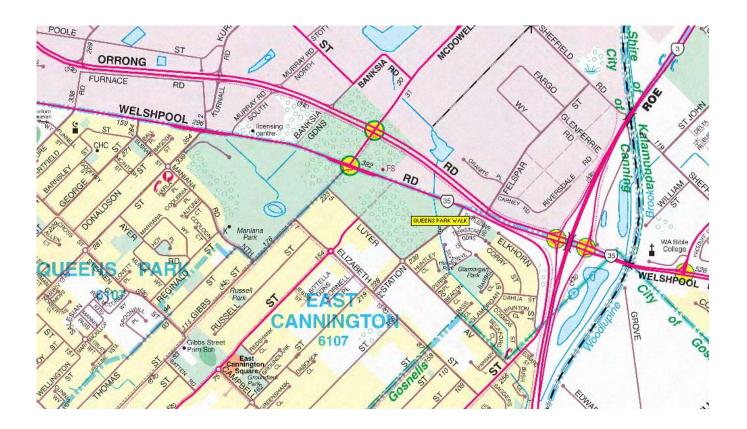
Scientific Name	<u>Common</u> <u>Name</u>	<u>Form</u>	<u>Habitat</u>	<u>Life</u> <u>Mode</u>	Field Book Page No.	Specimen ID
Calocera guepinioides	Scotsman's Beard	jelly fungus	dead wood	S	Q-1	2592
Clitocybe semiocculta	Shy Funnel Cap	shell	dead wood	S	J-4	2598
Crepidotus nephrodes		shell	dead wood	S		2627
Crepidotus sp.		shell	dead wood	S		2597
Crepidotus eucalyptorum	Eucalypt Crepidotus	shell	dead wood	S	J-13	2619
Fomitopsis lilacinogilva	Lilac Bracket Fungus	bracket	dead wood	S	N-2	2594, 2605, 2617, 2625
Galerina sp.		mushroom	litter/ground	S		2590
Gymnopilus allantopus	Golden Wood Fungus	mushroom	dead wood	S	J-15	2612, 2626, 2631, 2587
Gymnopilus cf. purpuratus		mushroom	dead wood	S		2596
Gymnopilus sp.		mushroom	dead wood	S		2600, 2602, 2604, 2614
Inocybe sp.		mushroom	litter/ground	M		2583
Laccaria sp.		mushroom	litter/ground	M		2585

Marasmiellus sp.		shell	dead wood	S		2588
Mycena sp.		mushroom	litter/ground	S		2586, 2589, 2610, 2616, 2620, 2630
Omphalotus nidiformis	Ghost Fungus	mushroom	dead wood	S/P	J-21	2621
Peniophora sp.		resupinate	dead wood	S		2624
Phellinus sp.		bracket	dead wood	S		2633
Pycnoporus coccineus	Scarlet Bracket Fungus	bracket	dead wood	S	N-8	2584, 2599, 2609, 2611
Ramaria sp.		coral	litter/ground	M		2613
Resupinatus sp.		shell	dead wood	S		2591, 2632
Scleroderma sp.		puffball	litter/ground	M	L-4	2608
Trichoderma sp.		mould	dead wood	S		2628
Trichodermium sp.		mould	litter/ground	S		2593
Tubaria sp.		mushroom	litter/ground	S		2595, 2615
Undetermined Resupinate		resupinate	dead wood	M		2601, 2603, 2606, 2607, 2618, 2622, 2623, 2629

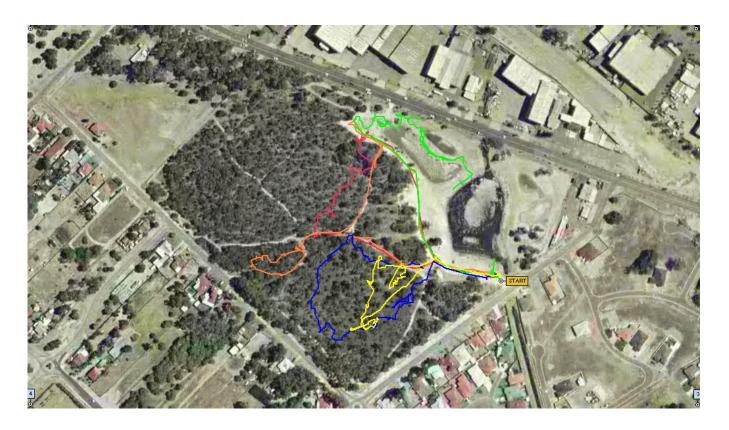
Permanent Voucher Collections

Two of the fungi collected during this event were deposited in the WA Herbarium fungi collection with the following details:

Fomitopsis lilacinogilvaVoucher ID E8381Specimen ID 2605Resupinatus sp.Voucher ID E8382Specimen ID 2591



StreetExpress Map showing the location of Queens Park Bushland, Bush Forever Site 283.



Aerial photo showing the colour coded tracks of the five groups on 23 July 2006.

Georeferenced Track and Photos

Roz Hart and Rebecca Zappia's group, 23 July 2006.



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 which correlates with the site on the map above.



08 Pycnoporus coccineus

Photographer Roz Hart

Scarlet Bracket Fungus
Specimen ID: 2584

Growing on dead melaleuca branch.

Latitude: -32° 0' 9.79" Longitude: 115° 57' 54.90" Easting:402262 Northing: 6458795 Zone: 50

Date: 23 Jul 2006 opt Image QP66 179RZ08



10 Laccaria sp.

Photographer Roz Hart Specimen ID: 2585

Growing on the underside of wood, in sheoak and marri woodland.

Latitude: -32° 0' 9.37" Longitude: 115° 57' 55.04" Easting:402266 Northing: 6458808 Zone: 50

Date: 23 Jul 2006 opt Image QP66_179RZ10



14 Mycena sp.

Photographer Roz Hart

Specimen ID: 2586

Growing on dead B. menziesii wood, in sheoak and B. menziesii

woodland.

Latitude: -32° 0' 10.38" Longitude: 115° 57' 54.46" Easting:402251 Northing: 6458776 Zone: 50

Date: 23 Jul 2006 opt Image QP66_179RZ14



16 Gymnopilus allantopus

Golden Wood Fungus

Photographer Roz Hart Specimen ID: 2587

Growing on fallen B. menziesii in Banksia menziesii woodland.

Latitude: -32° 0' 10.33" Longitude: 115° 57' 54.53" Easting: 402253 Northing: 6458778 Zone: 50

Date: 23 Jul 2006 opt Image QP66_179RZ16



19 Marasmiellus sp.

Photographer Roz Hart Specimen ID: 2588

Growing on dead marri in Banksia menziesii and marri woodland.

Latitude: -32° 0' 11.20" Longitude: 115° 57' 54.32"

Easting: 402248 Northing: 6458751 Zone: 50

Date: 23 Jul 2006 opt Image QP66_179RZ19



21 Mycena sp.

Photographer Roz Hart

Specimen ID: 2589

Growing on dead marri in Banksia menziesii and marri woodland.

Latitude: -32° 0' 11.24" Longitude: 115° 57' 54.31"

Easting: 402247 Northing: 6458750 Zone: 50

Date: 23 Jul 2006 opt Image QP66_179RZ21



36 Galerina sp.

Photographer Roz Hart Specimen ID: 2590

Growing on dead marri in Banksia menziesii and marri woodland.

Latitude: -32° 0' 11.49" Longitude: 115° 57' 54.26" Easting: 402246 Northing: 6458742 Zone: 50

Date: 23 Jul 2006 opt Image QP66_179RZ36



37 Resupinatus sp.

Photographer Roz Hart Specimen ID: 2591

Growing on dead *Banksia menziesii*, in *Banksia menziesii* and marri woodland.

Latitude: -32° 0' 12.19" Longitude: 115° 57' 54.25" Easting:402246 Northing: 6458720 Zone: 50

Date: 23 Jul 2006 opt Image QP66_179RZ37

Vouchered into WA Herbarium E8382



39 Calocera guepinioides

Photographer Roz Hart

Scotsman's Beard

Specimen ID: 2592

Growing on dead *Banksia menziesii*, in *B. menziesii*, marri, *Macrozamia reidlii* woodland.

Latitude: -32° 0' 12.06" Longitude: 115° 57' 54.54" Easting:402254 Northing: 6458725 Zone: 50

Date: 23 Jul 2006 opt Image QP66 179RZ39



41 Trichodermium sp.

Photographer Roz Hart

Specimen ID: 2593

Growing on dead *Banksia menziesii*, in *B. menziesii*, marri, *Macrozamia reidlii* woodland.

Latitude: -32° 0' 11.81" Longitude: 115° 57' 54.86" Easting:402262 Northing: 6458732 Zone: 50

Date: 23 Jul 2006 opt Image QP66_179RZ41



42 Fomitopsis lilacinogilva

Photographer Roz Hart

Lilac Bracket Fungus

Specimen ID: 2594

Growing on dead marri, in marri and sheoak woodland. Latitude: -32° 0′ 11.81" Longitude: 115° 57′ 54.86"

Easting: 402262 Northing: 6458732 Zone: 50

Date: 23 Jul 2006 opt Image QP66_179RZ42



46 Tubaria sp.

Photographer Roz Hart

Specimen ID: 2595

Growing on dead *Banksia menziesii* embedded in soil, in *B. menziesii*, marri woodland.

Latitude: -32° 0' 12.13" Longitude: 115° 57' 53.60" Easting:402229 Northing: 6458722 Zone: 50

Date: 23 Jul 2006 opt Image QP66 179RZ46

Georeferenced Track and Photos

Anthony Francis and Louise Little's group, 23 July 2006.



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 which correlates with the site on the map above.



05 Gymnopilus cf. purpuratus

Photographer Louise Little Specimen ID: 2596

Growing on dead paperbark in reconstructed wetland. Latitude: -32° 0' 3.79" Longitude: 115° 57' 54.11" Easting:402240 Northing: 6458979 Zone: 50

Date: 23 Jul 2006 opt Image QP66_180LL05



08 Crepidotus sp.

Photographer Louise Little Specimen ID: 2597

Growing on bark of eucalypt in reconstructed wetland. Latitude: -32° 0' 3.87" Longitude: 115° 57' 54.72" Easting: 402256 Northing: 6458977 Zone: 50

Date: 23 Jul 2006 opt Image QP66_180LL08



10 Clitocybe semiocculta

Photographer Louise Little

Shy Funnel Cap

Specimen ID: 2598

Growing on dead eucalypt in reconstructed wetland. Latitude: -32° 0' 3.64" Longitude: 115° 57' 54.79" Easting:402258 Northing: 6458984 Zone: 50

Date: 23 Jul 2006 opt Image QP66_180LL10



12 *Pycnoporus coccineus* Photographer Louise Little

Scarlet Bracket Fungus

Specimen ID: 2599

Growing on dead wood in reconstructed wetland. Latitude: -32° 0' 3.99" Longitude: 115° 57' 54.94" Easting:402262 Northing: 6458973 Zone: 50

Date: 23 Jul 2006 opt Image QP66_180LL12



14 Gymnopilus sp.

Photographer Louise Little Specimen ID: 2600

Growing on dead paperbark in reconstructed wetland. Latitude: -32° 0' 4.00" Longitude: 115° 57' 54.94"

Easting: 402262 Northing: 6458973 Zone: 50

Date: 23 Jul 2006 opt Image QP66_180LL14



16 Undetermined Resupinate

Photographer Louise Little Specimen ID: 2601

Growing on dead wattle in reconstructed wetland. Latitude: -32° 0' 5.50" Longitude: 115° 57' 57.96" Easting:402341 Northing: 6458927 Zone: 50

Date: 23 Jul 2006 opt Image QP66_180LL16

Georeferenced Track and Photos

Joe Froudist's group, 23 July 2006.



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02 Gymnopilus sp.

Photographer Joe Froudist

Specimen ID: 2602

Growing on dead banksia in banksia, marri, sheoak woodland.

Latitude: -32° 0' 11.05" Longitude: 115° 57' 55.87" Easting:402288 Northing: 6458756 Zone: 50

Date: 23 Jul 2006 opt Image QP66_181JF02



04 Undetermined Resupinate

Photographer Joe Froudist Specimen ID: 2603

Growing on dead banksia in banksia, marri, sheoak woodland.

Latitude: -32° 0' 11.81" Longitude: 115° 57' 55.33"

Easting: 402274 Northing: 6458733 Zone: 50

Date: 23 Jul 2006 opt Image QP66_181JF04



05 Gymnopilus sp.

Photographer Joe Froudist

Specimen ID: 2604

Growing on wood in litter in banksia, marri, sheoak woodland.

Latitude: -32° 0' 11.79" Longitude: 115° 57' 55.33" Easting: 402274 Northing: 6458733 Zone: 50

Date: 23 Jul 2006 opt Image QP66_181JF05



06 Fomitopsis lilacinogilva

Lilac Bracket Fungus

Photographer Joe Froudist Specimen ID: 2605

Growing on dead log in banksia, marri, sheoak woodland. Latitude: -32° 0′ 11.81" Longitude: 115° 57′ 54.79"

Easting:402260 Northing: 6458732 Zone: 50

Date: 23 Jul 2006 opt Image QP66_181JF06

Vouchered into WA Herbarium E8381



09 Undetermined Resupinate

Photographer Joe Froudist Specimen ID: 2606

Growing on dead banksia in banksia and marri woodland.

Latitude: -32° 0' 12.13" Longitude: 115° 57' 54.25"

Easting: 402246 Northing: 6458722 Zone: 50

Date: 23 Jul 2006 opt Image QP66_181JF09



11 Scleroderma sp.

Photographer Joe Froudist

Specimen ID: 2608

Growing amongst litter in banksia, sheoak woodland. Latitude: -32° 0' 12.20" Longitude: 115° 57' 52.16"

Easting: 402191 Northing: 6458720 Zone: 50

Date: 23 Jul 2006 opt Image QP66_181JF11



12 *Pycnoporus coccineus* Photographer Joe Froudist

Scarlet Bracket Fungus

Specimen ID: 2609

Growing on dead *Melaleuca preissiana* branch in melaleuca and banksia woodland.

Latitude: -32° 0' 11.05" Longitude: 115° 57' 51.70"

Easting: 402179 Northing: 6458755 Zone: 50

Date: 23 Jul 2006 opt Image QP66_181JF12



14 Mycena sp.

Photographer Joe Froudist Specimen ID: 2610

Growing on dead *Melaleuca preissiana* branch in melaleuca and marri

Latitude: -32° 0' 10.04" Longitude: 115° 57' 52.09"

Easting: 402189 Northing: 6458786 Zone: 50

Date: 23 Jul 2006 opt Image QP66_181JF14

Georeferenced Track and Photos

Phylis Robertson and Neil Goldsborough's Group, 23 July 2006.



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 which correlates with the site on the map above.



05 Pycnoporus coccineus

Photographer Neil Goldsborough

Scarlet Bracket Fungus

Specimen ID: 2611

Growing on dead *Melaleuca preissiana* near wetland. Latitude: -32° 0' 5.08" Longitude: 115° 57' 55.11" Easting:402266 Northing: 6458940 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG05



10 Gymnopilus allantopus

Photographer Neil Goldsborough

Golden Wood Fungus

Specimen ID: 2612

Growing on dead *Melaleuca preissiana* in wetland. Latitude: -32° 0' 4.98" Longitude: 115° 57' 55.04" Easting:402265 Northing: 6458943 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG10



13 Ramaria sp.

Photographer Neil Goldsborough Specimen ID: 2613

Growing amongst litter in banksia woodland. Latitude: -32° 0' 8.96" Longitude: 115° 57' 51.04" Easting:402161 Northing: 6458819 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG13



17 Gymnopilus sp.

Photographer Neil Goldsborough Specimen ID: 2614

Growing on dead marri wood in woodland.

Latitude: -32° 0' 9.24" Longitude: 115° 57' 50.54" Easting: 402148 Northing: 6458811 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG17



19 Tubaria sp.

Photographer Neil Goldsborough Specimen ID: 2615

Growing in litter in woodland.

Latitude: -32° 0' 9.21" Longitude: 115° 57' 50.54" Easting: 402148 Northing: 6458812 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG19



21 Mycena sp.

Photographer Neil Goldsborough Specimen ID: 2616

Growing amongst litter in marri woodland.

Latitude: -32° 0' 9.18" Longitude: 115° 57' 50.50" Easting:402147 Northing: 6458812 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG21



25 Fomitopsis lilacinogilva

Lilac Bracket Fungus

Photographer Neil Goldsborough Specimen ID: 2617

Growing on cut marri log in woodland.

Latitude: -32° 0' 9.29" Longitude: 115° 57' 49.79" Easting: 402128 Northing: 6458809 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG25



28 Undetermined Resupinate

Photographer Neil Goldsborough Specimen ID: 2618

Growing on dead wood in woodland.

Latitude: -32° 0' 9.39" Longitude: 115° 57' 49.51" Easting: 402121 Northing: 6458806 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG28



31 *Crepidotus eucalyptorum* Photographer Neil Goldsborough

Eucalypt Crepidotus

Specimen ID: 2619

Growing on dead marri in woodland.

Latitude: -32° 0' 9.32" Longitude: 115° 57' 49.25" Easting: 402114 Northing: 6458808 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG31



33 Mycena sp.

Photographer Neil Goldsborough Specimen ID: 2620

Growing on dead banksia in woodland.

Latitude: -32° 0' 9.65" Longitude: 115° 57' 48.93" Easting: 402106 Northing: 6458797 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG33



38 Omphalotus nidiformis

Ghost Fungus

Photographer Neil Goldsborough Specimen ID: 2621

Growing near wound on live *Banksia menziesii*. Latitude: -32° 0' 10.04" Longitude: 115° 57' 50.35" Easting:402143 Northing: 6458786 Zone: 50

Date: 23 Jul 2006 opt Image QP66_182NG38

Georeferenced Track and Photos

Jolanda Keeble and Tanja Lambe's Group, 23 July 2006.



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05 Undetermined Resupinate

Photographer Tanja Lambe Specimen ID: 2622

Growing on dead banksia wood in open jarrah, banksia woodland. Latitude: -32° 0' 4.64" Longitude: 115° 57' 53.86"

Easting: 402233 Northing: 6458953 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL05



07 Undetermined Resupinate

Photographer Tanja Lambe Specimen ID: 2623

Growing on dead banksia wood in open jarrah, banksia woodland.

Latitude: -32° 0' 4.70" Longitude: 115° 57' 53.99" Easting: 402237 Northing: 6458951 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL07

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08 Peniophora sp.

Photographer Tanja Lambe Specimen ID: 2624

Growing on dead eucalypt wood in open jarrah, banksia woodland.

Latitude: -32° 0' 4.41" Longitude: 115° 57' 54.40" Easting: 402248 Northing: 6458960 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL08



10 Fomitopsis lilacinogilva

Lilac Bracket Fungus

Photographer Tanja Lambe Specimen ID: 2625

Growing on dead eucalypt wood in open jarrah, banksia woodland.

Latitude: -32° 0' 5.80" Longitude: 115° 57' 54.81" Easting:402259 Northing: 6458918 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL10



12 Gymnopilus allantopus

Golden Wood Fungus

Photographer Tanja Lambe Specimen ID: 2626

Growing on dead banksia wood in open jarrah, banksia woodland.

Latitude: -32° 0' 6.02" Longitude: 115° 57' 54.11" Easting: 402240 Northing: 6458910 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL12



13 Crepidotus nephrodes

Photographer Tanja Lambe Specimen ID: 2627

Growing on dead banksia wood in open jarrah, banksia woodland.

Latitude: -32° 0' 5.80" Longitude: 115° 57' 54.03" Easting: 402238 Northing: 6458917 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL13



17 Trichoderma sp.

Photographer Tanja Lambe <u>Specimen ID</u>: 2628

Growing on dead banksia wood in open jarrah, banksia woodland.

Latitude: -32° 0' 5.86" Longitude: 115° 57' 53.94" Easting: 402236 Northing: 6458915 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL17



21 Undetermined Resupinate

Photographer Tanja Lambe Specimen ID: 2629

Growing on dead banksia wood in open jarrah, banksia woodland.

Latitude: -32° 0' 5.80" Longitude: 115° 57' 53.62" Easting:402228 Northing: 6458917 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL21



25 Mycena sp.

Photographer Tanja Lambe Specimen ID: 2630

Growing on dead banksia wood in open jarrah, banksia woodland.

Latitude: -32° 0' 6.13" Longitude: 115° 57' 53.78" Easting: 402232 Northing: 6458907 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL25



30 Gymnopilus allantopus

Golden Wood Fungus

Photographer Tanja Lambe Specimen ID: 2631

Growing on dead banksia wood in open jarrah, banksia woodland.

Latitude: -32° 0' 7.02" Longitude: 115° 57' 52.88" Easting:402209 Northing: 6458879 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL30



37 Resupinatus sp.

Photographer Tanja Lambe Specimen ID: 2632

Growing on dead banksia wood in open jarrah, banksia woodland.

Latitude: -32° 0' 7.34" Longitude: 115° 57' 52.64" Easting: 402202 Northing: 6458870 Zone: 50

Date: 23 Jul 2006 opt Image QP66_183TL37



39 Phellinus sp.

Photographer Tanja Lambe Specimen ID: 2633

Growing on dead banksia wood in open jarrah, banksia woodland.

Latitude: -32° 0' 7.70" Longitude: 115° 57' 52.93" Easting: 402210 Northing: 6458858 Zone: 50

Lasting. +02210 100 tilling. 0+30030 Zone. 30

Date: 23 Jul 2006 opt Image QP66_183TL39