

# Fungal Network of New Zealand (FUNNZ) 2024 Foray brief summary on finds on Marlborough District Council (MDC) land

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The foray was centred in Havelock and took place on the week of Monday 19<sup>th</sup> May 2024. We appreciate the permission that MDC granted to collect on their land and reserves. This enables the option of any finds from these locations being acquisition for processing and long term storage at the national herbarium / fungarium at Landcare. Thus enabling current and future generations of scientists to study the fungi.

All the finds were uploaded to [inaturalist](#) as part of the [FUNNZ project](#). It was planned that a project was setup to capture the observations on MDC land. However [the project](#) captured all the 2024 finds instead. Although it would seem intuitive that the observations on MDC could be collated in inaturalist into a project, it didn't seem possible due to the complexities of the task.

Therefore the observations were manually collated the observations into the attached table. The spreadsheet has also been emailed so easy sorting if required. The points that may be of interested points are highlighted below:

The total number of observations, including lichens was 77. It is difficult to estimate the total number of species, since with fungi getting to genus is often the level of identification possible without microscopic work by a knowledgeable person. There was a mixture of indigenous and exotic species reflecting the modified and indigenous environments.

In general the landscape was dry, which is becoming somewhat expected. Seems that a region that has an upcoming foray has a dry summer and autumn! Thus most collecting occurred back from the coast, close to forested waterways and valleys. Which resulted in not many collections from MDC land, as these lands were often close to the water or smaller tree-ed areas so not retained moisture.

However the walkway at the back of Havelock going up to the Havelock Waterfall was a productive walk for fungal observations.

It is difficult to know what MDC would find most interesting across all 76 observations, so hopefully the following highlights are of interest. To put the numbers below into context there are currently ~270 000 fungi observations (including lichens) on inaturalist.



[Tricholoma scalpturatum](#) was [recorded](#) at Spring Creek Kahikatea Reserve. This is an exotic fungi that is mycorrhizal (symbiotic) with poplar. This made the fifth observation on inaturalist in New Zealand.

[Tricholoma terreum](#) a visually very similar species that associates with pine has nearly 400 observations which shows how rare *T. scalpturatum* is.



What was thought to be the [first record](#) of an Australian *Cortinarius* (webcap) species in New Zealand. This purple and yellow species was associated with eucalyptus outside the Havelock waste transfer station. Being a distinctive colour it was easy to compare to other Australian *Cortinarius* species found in New Zealand and none had purple – yellow colors. However DNA testing showed that this species had been recorded before in the Nelson-Marlborough area but had not yellow present.

Given the Western knowledge of Australian fungi, it could be that this species has not been named or recorded in Australia. It is not one that is in the common Australian guidebooks, nor on Australia's iNaturalist in the named observations.



Three observations of the ‘rooting’ fungi from the [Oudemansiella](#) genus. Fungi don’t have roots as such, being completely different ecology. But these fungi seem to originate their fruiting bodies from roots or other woody material underground in the soil. Compared to the typical presentation where the fruiting bodies start on the surface or just below their substrate (eg soil or wood). Thus there is a substantial ‘root’ that is below the fungi.

Unfortunately unless one ID’s the fungi before picking, one doesn’t know to dig as deeply as possible (often the root goes below the depth of a pocket knife blade), then the majority of the ‘root’ is left in the ground. So hence only one observation shows the root, and this left the majority in the ground. And even if one is aware and attempts to remove as much of the ‘root’ as possible it is very difficult to get any length of the ‘root’ still attached.

Thus the picture of the left only shows a small amount of ‘root’ starting where the stem changes from white to black, and then it continues down for a cm or two before it was cut.

These three observations make up approximately 1.5% of all these rooting fungi observations. So not rare, but hardly common, so interesting that so many were found in Havelock, one being on the Havelock foreshore and other two back on the bush-town interface.





Tiny [\*Hymenotorrendiella\*](#) fruiting on a eucalyptus leaf in Havelock. These are fundamentally different from gilled fungi (Phylum Ascomycota) in the spores are ejected out of tubes, instead of being attached to the ends of 'clubs' (basidia)

There are only 30 observations of the genus in New Zealand and if these are *H. eucalypti* as suggested they likely are, this will only be the second inaturalist observation of this species.



[An observation](#) was made of the New Zealand indigenous fungi [\*Leratiomyces erythrocephalus\*](#) which instead of having a cap with gills, has a ball for a cap and the spores located within this ball.

The photo to the left is not from the Havelock foray but illustrates the species well. Photo credit [Christian Schwarz](#)

There was also a rust fungi [\*Mikronegeria fuchsiae\*](#) infecting NZ fuchsia and a jelly fungi [\*Tremella fuciformis\*](#), so named as they look and feel like a lump of jelly.

Lastly this compilation exercise also highlighted a challenge with data entry of the observations. The idea behind inaturalist is that you drop a pin as close to the find location as possible, including an error for how wide a circle the find was located in. Since unless a gps / phone with gps is used to mark the exact spot, when in a forest environment it is impossible to locate the exact location. What this has resulted in is a few attendees dropping a pin into Havelock with a very large error. Which means superficially it appears that observations were occur in Havelock urban area, so in public spaces / MDC land, which in fact there were not. So the data collation was not as straight forward as expected. This is helpful otherwise we would have not been aware this was happening and going forward we will endeavour to have clearer instructions on how to enter the observations.

Table 1: Finds recorded on MDC land, by alphabetical order:

<b>Name</b>	<b>Location</b>	<b>Link</b>
<a href="#"><u>Amanita pekeoides</u></a>	Momorangi Bay	<a href="https://inaturalist.nz/observations/215424054">https://inaturalist.nz/observations/215424054</a>
<a href="#"><u>Armillaria novae-zelandiae</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216203613">https://inaturalist.nz/observations/216203613</a>
<a href="#"><u>Auricularia cornea</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/215997108">https://inaturalist.nz/observations/215997108</a>
<a href="#"><u>Auricularia cornea</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216191760">https://inaturalist.nz/observations/216191760</a>
<a href="#"><u>Bolbitius titubans</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/216078975">https://inaturalist.nz/observations/216078975</a>
<a href="#"><u>Cerrena zonata</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216197518">https://inaturalist.nz/observations/216197518</a>
<a href="#"><u>Chalciporus piperatus</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215632078">https://inaturalist.nz/observations/215632078</a>
<a href="#"><u>Clavulina</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216055216">https://inaturalist.nz/observations/216055216</a>
<a href="#"><u>Coltricia</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216207801">https://inaturalist.nz/observations/216207801</a>
<a href="#"><u>Coprinellus</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216191099">https://inaturalist.nz/observations/216191099</a>
<a href="#"><u>Coprinopsis</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/216040919">https://inaturalist.nz/observations/216040919</a>
<a href="#"><u>Cortinarius</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216226671">https://inaturalist.nz/observations/216226671</a>
<a href="#"><u>Cortinarius</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216054859">https://inaturalist.nz/observations/216054859</a>
<a href="#"><u>Cortinarius</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215638703">https://inaturalist.nz/observations/215638703</a>
<a href="#"><u>Cortinarius castoreus</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215671000">https://inaturalist.nz/observations/215671000</a>
<a href="#"><u>Cortinarius castoreus</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215637623">https://inaturalist.nz/observations/215637623</a>
<a href="#"><u>Crepidotus</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216202239">https://inaturalist.nz/observations/216202239</a>
<a href="#"><u>Cruentomycena viscidocruenta</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215609711">https://inaturalist.nz/observations/215609711</a>
<a href="#"><u>Dacrymyces</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216200393">https://inaturalist.nz/observations/216200393</a>
<a href="#"><u>Daldinia</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215194577">https://inaturalist.nz/observations/215194577</a>
<a href="#"><u>Entoloma</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216067942">https://inaturalist.nz/observations/216067942</a>
<a href="#"><u>Family Hygrophoraceae</u></a>	Anakiwa	<a href="https://inaturalist.nz/observations/215663318">https://inaturalist.nz/observations/215663318</a>
<a href="#"><u>Family Nidulariaceae</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216053325">https://inaturalist.nz/observations/216053325</a>
<a href="#"><u>Favolaschia claudopus</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/215992079">https://inaturalist.nz/observations/215992079</a>
<a href="#"><u>Favolaschia claudopus</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216197904">https://inaturalist.nz/observations/216197904</a>
<a href="#"><u>Galerina</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215612487">https://inaturalist.nz/observations/215612487</a>
<a href="#"><u>Ganoderma</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215636416">https://inaturalist.nz/observations/215636416</a>
<a href="#"><u>Genus Coprinopsis</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/216075764">https://inaturalist.nz/observations/216075764</a>
<a href="#"><u>Hymenotorrendiella</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215639958">https://inaturalist.nz/observations/215639958</a>
<a href="#"><u>Hypholoma</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215672047">https://inaturalist.nz/observations/215672047</a>
<a href="#"><u>Hypholoma australianum</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215645093">https://inaturalist.nz/observations/215645093</a>
<a href="#"><u>Hypholoma brunneum</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216205916">https://inaturalist.nz/observations/216205916</a>
<a href="#"><u>Kingdom Fungi</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215639691">https://inaturalist.nz/observations/215639691</a>
<a href="#"><u>Laccaria</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215637663">https://inaturalist.nz/observations/215637663</a>
<a href="#"><u>Laccaria</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215639831">https://inaturalist.nz/observations/215639831</a>
<a href="#"><u>Leccinum scabrum</u></a>	Wakamarina Rd	<a href="https://inaturalist.nz/observations/215407928">https://inaturalist.nz/observations/215407928</a>
<a href="#"><u>Leratiomyces erythrocephalus</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215638851">https://inaturalist.nz/observations/215638851</a>

<a href="#"><u>Leucoagaricus</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215627852">https://inaturalist.nz/observations/215627852</a>
<a href="#"><u>Mikronegeria fuchsiae</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216194684">https://inaturalist.nz/observations/216194684</a>
<a href="#"><u>Mycena</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215611940">https://inaturalist.nz/observations/215611940</a>
<a href="#"><u>Mycena</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215631508">https://inaturalist.nz/observations/215631508</a>
<a href="#"><u>Mycena</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215671747">https://inaturalist.nz/observations/215671747</a>
<a href="#"><u>Mycena</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216205308">https://inaturalist.nz/observations/216205308</a>
<a href="#"><u>Mycena interrupta</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215671358">https://inaturalist.nz/observations/215671358</a>
<a href="#"><u>Mycena interrupta</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215643883">https://inaturalist.nz/observations/215643883</a>
<a href="#"><u>Order Agaricales</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/215996932">https://inaturalist.nz/observations/215996932</a>
<a href="#"><u>Order Agaricales</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/216078403">https://inaturalist.nz/observations/216078403</a>
<a href="#"><u>Order Agaricales</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/216075218">https://inaturalist.nz/observations/216075218</a>
<a href="#"><u>Order Agaricales</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215617902">https://inaturalist.nz/observations/215617902</a>
<a href="#"><u>Order Agaricales</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215641236">https://inaturalist.nz/observations/215641236</a>
<a href="#"><u>Order Agaricales</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216198415">https://inaturalist.nz/observations/216198415</a>
<a href="#"><u>Order Agaricales</u></a>	Wakamarina Rd	<a href="https://inaturalist.nz/observations/215408054">https://inaturalist.nz/observations/215408054</a>
<a href="#"><u>Order Agaricales</u></a>	Taylor River Reserve	<a href="https://inaturalist.nz/observations/215843575">https://inaturalist.nz/observations/215843575</a>
<a href="#"><u>Order Hypocreales</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215633043">https://inaturalist.nz/observations/215633043</a>
<a href="#"><u>Order Polyporales</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/215997485">https://inaturalist.nz/observations/215997485</a>
<a href="#"><u>Oudemansiella</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216429521">https://inaturalist.nz/observations/216429521</a>
<a href="#"><u>Oudemansiella</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215590978">https://inaturalist.nz/observations/215590978</a>
<a href="#"><u>Oudemansiella</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215633296">https://inaturalist.nz/observations/215633296</a>
<a href="#"><u>Pholiota</u></a>	Momorangi Bay	<a href="https://inaturalist.nz/observations/215421303">https://inaturalist.nz/observations/215421303</a>
<a href="#"><u>Pluteus readiarum</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215609806">https://inaturalist.nz/observations/215609806</a>
<a href="#"><u>Psathyrella</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215430571">https://inaturalist.nz/observations/215430571</a>
<a href="#"><u>Russula</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215670823">https://inaturalist.nz/observations/215670823</a>
<a href="#"><u>Stereum ostrea</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215418977">https://inaturalist.nz/observations/215418977</a>
<a href="#"><u>Stropharia</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216247919">https://inaturalist.nz/observations/216247919</a>
<a href="#"><u>Suborder Marasmiineae</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/215992321">https://inaturalist.nz/observations/215992321</a>
<a href="#"><u>Subphylum Pezizomycotina</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215595546">https://inaturalist.nz/observations/215595546</a>
<a href="#"><u>Suillus lakei</u></a>	Picton	<a href="https://inaturalist.nz/observations/216960860">https://inaturalist.nz/observations/216960860</a>
<a href="#"><u>Suillus luteus</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216428580">https://inaturalist.nz/observations/216428580</a>
<a href="#"><u>Suillus pungens</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215628737">https://inaturalist.nz/observations/215628737</a>
<a href="#"><u>Tremella fuciformis</u></a>	Havelock	<a href="https://inaturalist.nz/observations/216204481">https://inaturalist.nz/observations/216204481</a>
<a href="#"><u>Tricholoma scalpturatum</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/216960859">https://inaturalist.nz/observations/216960859</a>
<a href="#"><u>Tricholoma terreum</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215632540">https://inaturalist.nz/observations/215632540</a>
<a href="#"><u>Tylopilus</u></a>	Anakiwa	<a href="https://inaturalist.nz/observations/216224462">https://inaturalist.nz/observations/216224462</a>
<a href="#"><u>Tylopilus brunneus</u></a>	Havelock	<a href="https://inaturalist.nz/observations/215629981">https://inaturalist.nz/observations/215629981</a>
<a href="#"><u>Xanthoria</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/216713124">https://inaturalist.nz/observations/216713124</a>
<a href="#"><u>Xanthoria parietina</u></a>	Spring Creek	<a href="https://inaturalist.nz/observations/215991719">https://inaturalist.nz/observations/215991719</a>

