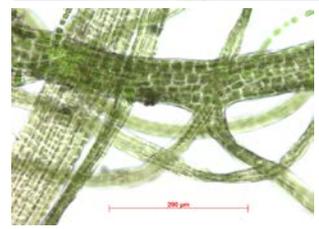
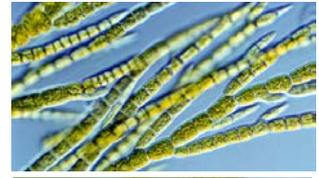
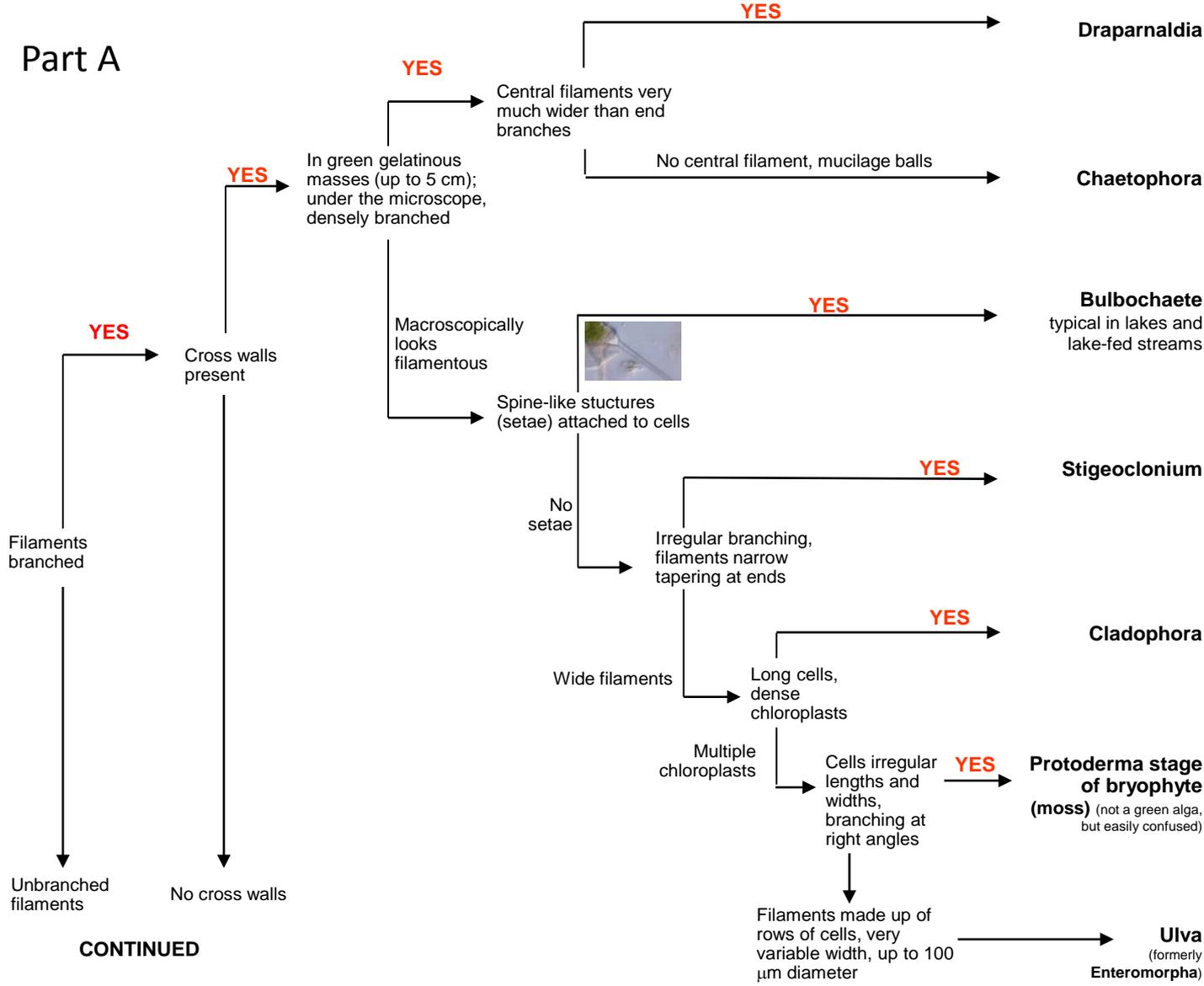


# Quick-guide to common filamentous green algae New Zealand fresh waters

(All genera belong within the Chlorophyta, except for two within Ochrophyta: Xanthophyceae)

## Part A



CONTINUED

**Quick-guide to common filamentous green algae**

**Part B**

CONTINUED

CONTINUED

Branched filaments,  
no cross walls

**YES**

**Vaucheria**  
Ochrophyta:  
Xanthophyceae



**YES**

**Cylindrocapsa**

But can have end-to-end cells;  
generally distinct red pigmentation.  
In wetlands and lake edges.



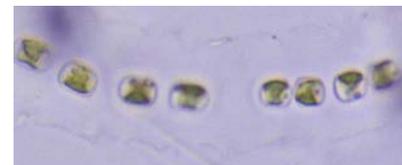
**YES**

Cell wall  
lamellated  
(layered)



Cells in a wide mucilage  
sleeve. Typical in lakes

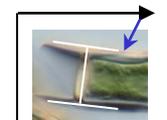
**Geminella**



Unbranched  
filaments

Cells separated  
within the filament

Cells  
arranged  
end to end

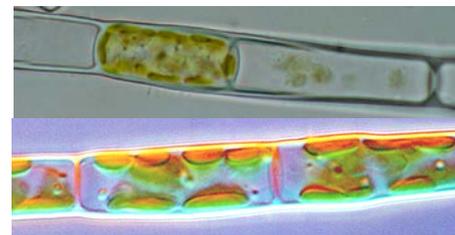


Cell walls joined  
mid-cell to form  
H-shaped  
sections

Multiple small  
chloroplasts

**YES**

**Tribonema**  
Ochrophyta:  
Xanthophyceae



Dense parietal chloroplasts  
(lying flat against the cell wall)

**Microspora**



H-shaped  
sections not  
present

CONTINUED

**Quick-guide to common filamentous green algae**

**Part C**

CONTINUED

Filaments not branched

Cells arranged end to end

No H-shaped sections in cell walls

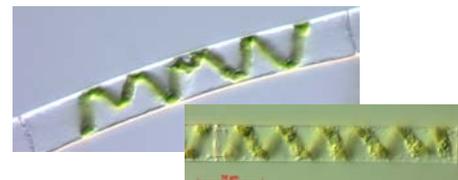
Chloroplast a lengthwise sheet or ribbon, flat or twisted

**YES**

Chloroplast clearly spiral

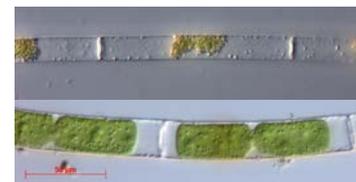
**YES**

**Spirogyra**



Chloroplast a lengthwise sheet

**Mougeotia**

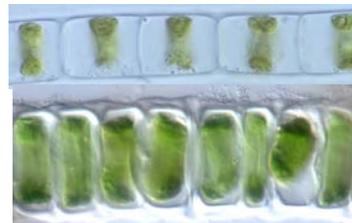


Chloroplast parietal (lying flat against the cell wall)

**YES**

Chloroplast a distinct ring or near-complete ring

**Ulothrix**



Chloroplast covering a small portion of the cell wall

**Klebsormidium**



Chloroplast large, reticulate (like a net)  
Scarring (concentric rings) on some cells

**Oedogonium**



Chloroplasts otherwise

Chloroplasts in pairs

**YES**

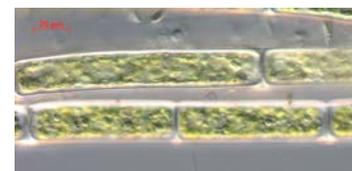
**Zygnema**



Dense reticulate chloroplasts

Very long cells

**Rhizoclonium**



For short cells, check *Melosira* (see diatom key)