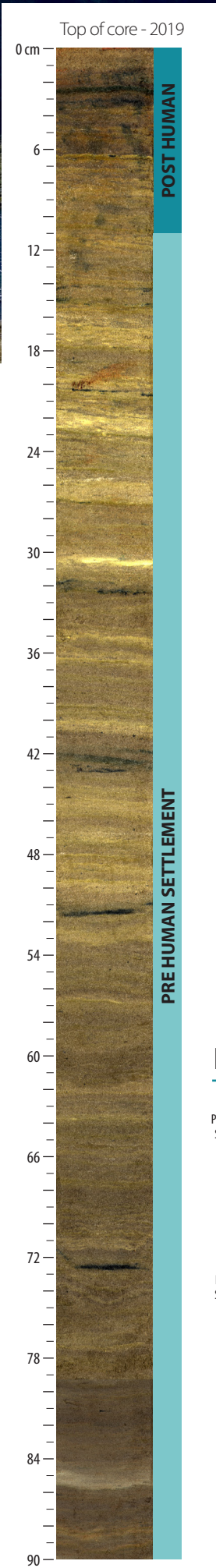




Lakes380

Our lakes' health past, present, future
Me hoki whakamuri,
kia haere whakamua



LAKE LOCKETT

Region: Tasman **Location:** Kahurangi National Park **Coordinates:** 41° 4' 50" S 172° 37' 31" E **Depth:** 57 m

Lake Lockett is situated in an alpine cirque (a bowl shaped valley formed by a glacier) on the slopes of Mt Lockett in Kahurangi National Park. It is surrounded on three sides by steep rock and scree slopes.

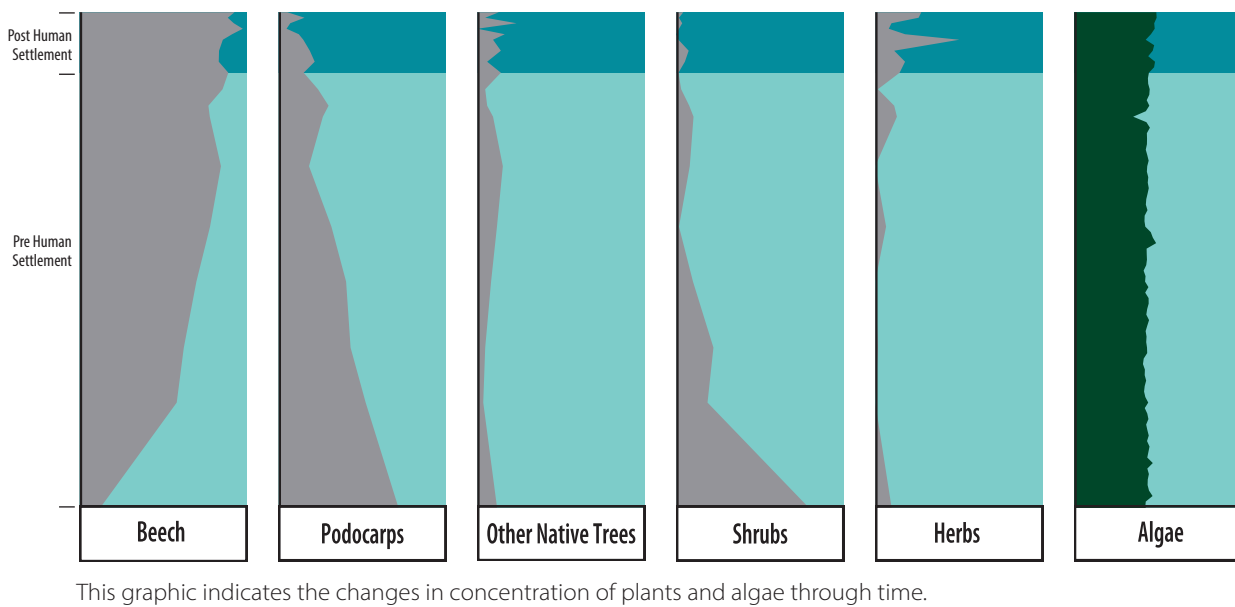
The initial results from the sediment core suggest that the lake was originally surrounded by a mix of alpine herbs and native forest including beech, some podocarps and shrubs (especially celery pine and coprosma). Over time the abundance of beech has increased, and podocarps and native shrubs have reduced.

The remote location of the lake within Kahurangi National Park, has meant that evidence of human

presence or impact on this lake is minimal. Increases in herbs (including grasses) post human settlement are likely indicative of land use changes further afield in the region

The data over the last about 11,000 years indicate the levels of algae are low but have remained very constant.

POLLEN, CHARCOAL & ALGAE LEVELS FOR THE PAST ~11,000 YEARS



This graphic indicates the changes in concentration of plants and algae through time.