



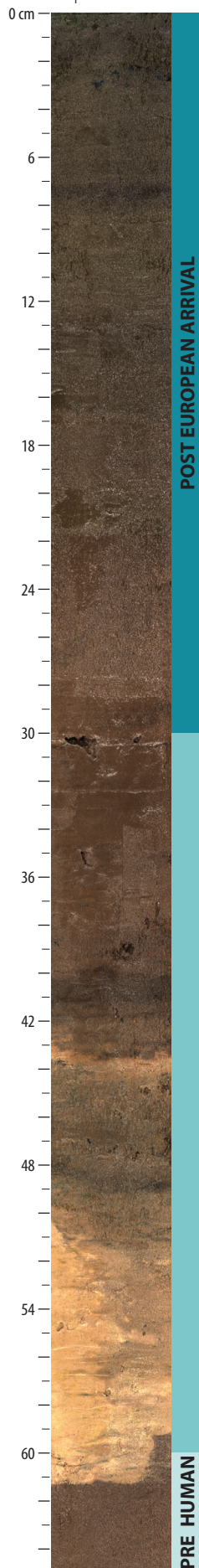
Lakes380

Our lakes' health past, present, future

Me hoki whakamuri, kia haere whakamua



Top of core - 2019



LAKE TUTAEINANGA

Region: Waikato **Location:** Rotorua **Coordinates:** 40°51'07 S 175°48'29 E **Depth:** 8.5 m

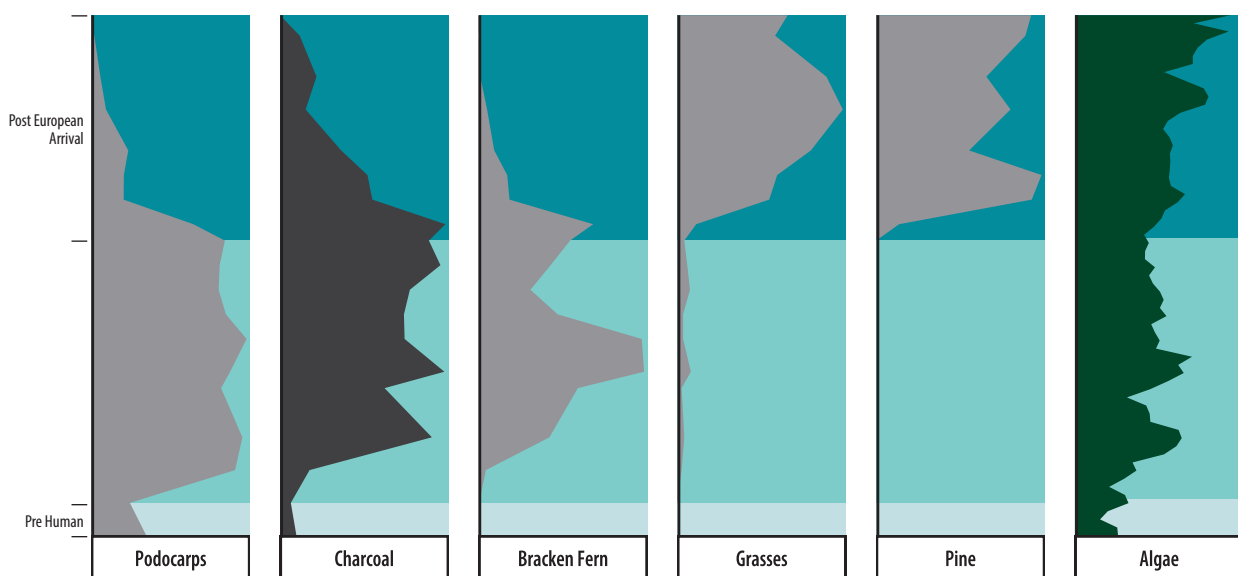
Lake Tutaeinanga is a small lake in the geothermal area close to Maungakakamea and Waiotapu, Rotorua. The lake is now rich in nutrients and frequently experiences nuisance cyanobacterial blooms.

The initial results from the sediment core suggest that as humans arrived burning and some disturbances to the vegetation began in the region. This is highlighted in the graphic below by the increase in charcoal (burning) and bracken fern which is commonly associated with landscape disturbance. Native podocarps and beech forest remained in the region until European arrival.

Post European arrival forest clearance intensified and native vegetation was replaced by pastoral land and non-native trees such as pine. Algae have always been present in the lake, but have steadily increased in the last 200 years.

Recent efforts to improve lake health have focused on establishing native riparian vegetation around the lake.

POLLEN, CHARCOAL AND ALGAE LEVELS FOR THE PAST ~1000 YEARS



The shaded area indicates the concentration of plants, charcoal or algae through time.