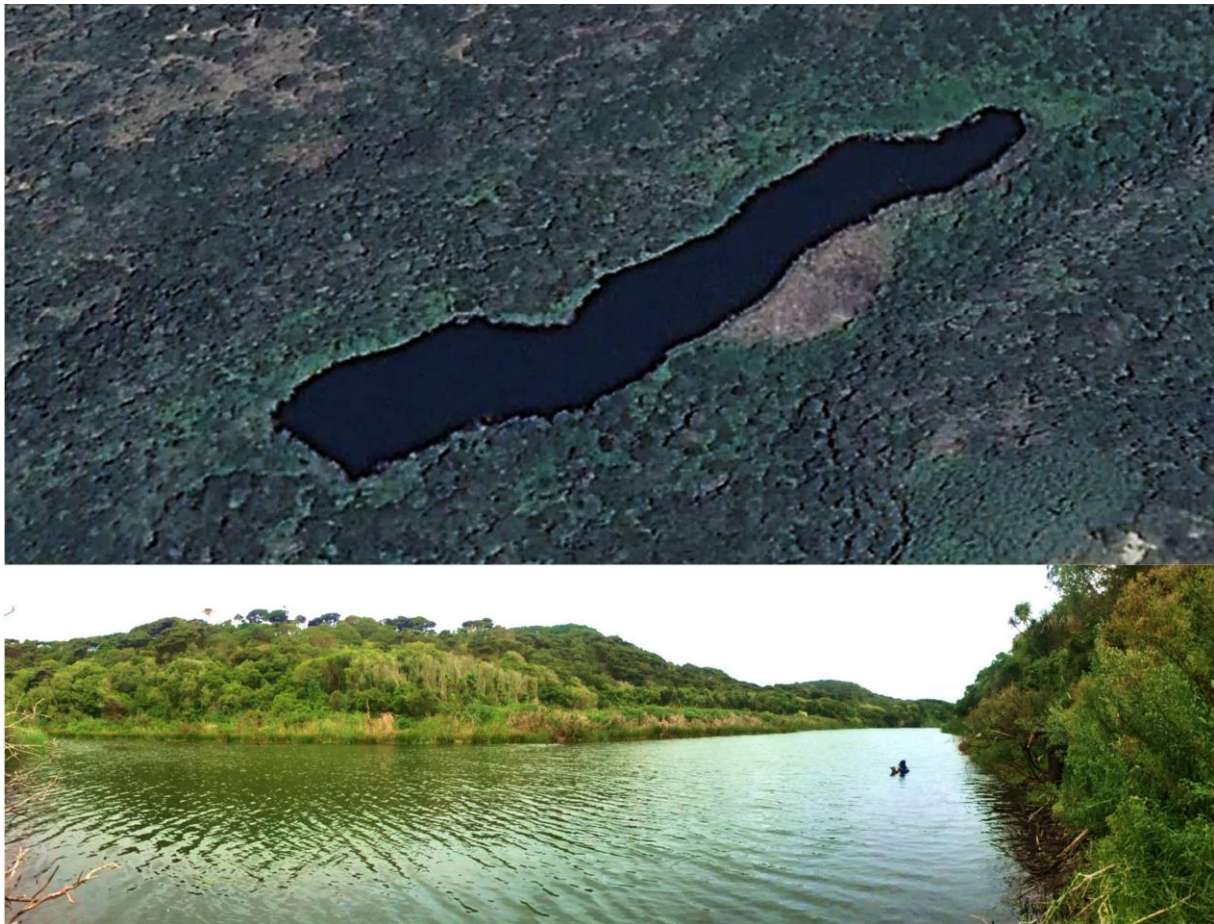


## Te Hiku

Lake Te Arai 5 (Aupouri), NRC Lake No. 44.



**Figure 3-9: Lake Te Arai 5.** Satellite image (above) and lakeside photograph (below).

Summary	Lake Te Arai 5
<b>Surveyed:</b>	2017.
<b>Overall ranking:</b>	<b>Moderate-Low:</b> Remote, shallow, steep sided dune lake, with low diversity native submerged species with some <i>Utricularia gibba</i> . Poorly developed emergent vegetation.
<b>Threats:</b>	Very few, due to isolation and location amongst native bush.
<b>Management recommendations:</b>	No monitoring.

## Description

This dune lake (1594675E 6160791N) 1.38 ha in area with a maximum depth >4 m. The catchment is steep native coastal bush. There are no inlets or outlets. Access was gained by a 600 m walk through bush and difficult terrain.

## Wetland vegetation

The lake margins were steep with a narrow fringe of wetland vegetation. Kuta (*Eleocharis sphacelata*) grew into deeper water (to 1.7 m) with some raupo (*Typha orientalis*) and *E. acuta*.

## Submerged vegetation

Low diversity with *Chara australis* dominant from 0.4 to a maximum of 2.9 m and a small amount of *Potamogeton cheesemanii*. The invasive *Utricularia gibba* was restricted to the shallows with a maximum depth of 1 m.

## LakeSPI

A LakeSPI index of 71% was calculated with a Native Condition Index of 49% and Invasive Impact Index of 6%. A low diversity, predominantly native submerged vegetation was present.

## Water birds

Three mallards (*Anas platyrhynchos*) and one dabchick (*Poliiocephalus rufopectus*) were seen.

## Fish

No fish were seen.

## Aquatic invertebrates

No mussels or koura seen.

## Endangered species

One At-Risk Recovering dabchick (*Poliiocephalus rufopectus*) was seen.

## Lake Ecological Value

The condition of Te Arai Lake 5 was moderate to low, with a mostly native submerged vegetation, but poorly developed emergent vegetation.

## Threats

Few invasive threats noted as the lake is very difficult to access. Development of the catchment would threaten the water quality.

## Management recommendations

No monitoring recommended.