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Targeted species assay

22 sites targeting the presence of tilapia

Invasive species

Tilapia confirmed downstream, but remained absent from the Dam during survey.

Fishway management

Seqwater presently manages fish migration activities in a trap and haul program. Results have confirmed risks and importance of accurate fish ID.

Sustainability

eDNA has helped confirm the effectiveness of management initiatives supporting the ecological, economic and social services that the dam provides the community.

CLIENT: Seqwater

Species specific assay targeting Tilapia (*Oreochromis mossambicus*) was undertaken by eDNA Australia for Seqwater. The Mozambique tilapia is listed in the top 100 of the world's most invasive species, posing a threat to native fish and habitats through competition, predation and aggressive behavior. Previous survey has not identified the presence of tilapia within the dam.

The conduct of eDNA sampling from known impacted locations confirmed the presence of tilapia downstream of the dam, including the adjacent downstream spillway area. Tilapia DNA was not reported from the Dam itself.

The field screening and biosecurity processes adopted for the trap and haul program (supporting upstream migration of native fishes) appears to be effective in mitigating translocation risk of Tilapia. The program continues to provide well managed ecological, economic and social benefits to the upstream users.