

Research Centre Pump Station

This internationally recognised marine research centre in Tasmania is the hub of a Fisheries and Aquaculture program. Their existing seawater pump station needed to be upgraded to improve the security and capacity of their seawater research. This upgrade will also easily support future expansion of the research facilities.

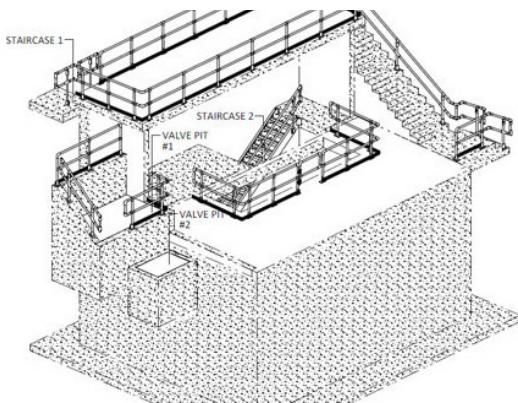
Treadwell was engaged to engineer, design and supply the handrails, decking, structural profiles and stair treads for the pump station upgrade.

Project Challenges

- Being exposed to outdoor weather conditions, the selected grating had to have an anti-slip surface.
- Metal handrails would get too heated in this outdoor application, the chosen material had to have low thermal conductivity for user safety in extreme temperatures, while remaining robust.
- Non-corrosive stair access was required within the facility.

PROJECT INFORMATION

Project Category:	Infrastructure Upgrades
Scope of Work:	Supply FRP grating
Treadwell Products:	EX-Series® GratEX® FRP Square Mesh Grating RailEX® ROUND FRP Handrails ArchitEX™ Structural Profiles



Treadwell Solution:

1

GratEX® FRP Square Mesh grating is constructed with an anti-slip surface to ensure user safety.

2

RailEX® FRP handrails include UV inhibitors and fire-retardant additives, making it ideal for various environments.

3

FRP is naturally non-conductive, making it safe to use even when exposed to extreme temperatures.

4

ArchitEX™ FRP structural profiles were used within the facility along with GratEX® stair treads to ensure durability and long design life.

5

FRP is simply fabricated and modified on site. This means there is no need for any hot works permit.

6

Given the nature of FRP, any system utilising it is virtually maintenance free, keeping maintenance costs to a minimum.