

Project 23 – Developing a water balance model for Lake Cantara and quantifying the contribution of regional groundwater process to the hydroperiod of the lake.

Location: The project will be based at Adelaide, SA

Required area of expertise/background: An Honours or MSc degree in Hydrochemistry, aquatic plant biology modelling

Project: Lake Cantara is a historically important location for *Ruppia tuberosa* in the near Coorong Region. The site acts as a potential donor site to reinstate *Ruppia tuberosa* to the South Lagoon if the existing seedbank becomes too depauperate to successfully restore the community. Recently observations indicate the hydroperiod required to fully support flowering and seed production across the full extent of the lake may have not been realised as indicated by limited replacement of *Ruppia* seeds where previously harvested. It is presently unknown whether changes in groundwater processes, surface water hydrology or other factors have limited seed production and why this is changing.

2017 RTP full time RTP Stipend Rates* (\$26,682). Approximate annual top-up amount: To be negotiated

Principal Supervisor:

TBC -

Co Supervisors:

Jason Higham – DEWNR



Government of South Australia
Department of Environment,
Water and Natural Resources



**NATIONAL CENTRE FOR
GROUNDWATER
RESEARCH AND TRAINING**