Progress Report STP 2013-013 (FY 2015-2016)

Nutrient movement and its impact on aquatic invertebrates as a food source of waterbirds between different wetland suites within the Lake Warden Wetland System

Wetlands Conservation

Project Core Team

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Project status as of June 17, 2016, 3:04 p.m.

Approved and active

Document endorsements and approvals as of June 17, 2016, 3:04 p.m.

Project Team	granted
Program Leader	granted
Directorate	granted

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Progress Report

Canditure for this project has been suspended until January 2017 due to other commitments. During 2015-16 the following tasks were completed.

- Aquatic invertebrates were identified by Parks and Wildlife staff and analysed for the pink lakes component of the project.
- Evaporative total dissolved solids analysis were completed.
- A paper on management of the Lake Warden system was presented at the South Australia NRM Conference in Adelaide.
- A poster titled 'Comparing methods for analysing the microbial communities of Lake Hillier – an Australian bright-pink hypersaline lake" was prepared.

Four paper are planned from this project.

- A discussion of actual salt concentrations in relation to electrical conductivity of hyper saline water – case study of natural hyper saline lakes on the South-coast of Western Australia
- Managing increased salt loads in Lake Warden and its impacts on aquatic invertebrate assemblages as food source for waterbird assemblages.
- A simplified numerical model of water balance and solute load differences between Pink Lake and Lake Warden.
- A study of the feasibility of reinstating the surface water hydrological link between Pink Lake and Lake Warden as part of long term restoration plans.