

## Submission on the Proponent Initiated Environmental Impact Statement Referral (PIER) Department of Logistics and Infrastructure (DLI) - Adelaide River Off-stream Water Storage (AROWS)

This submission is made under regulation 53 of the Environment Protection Regulations 2020

**Government authority: Health Protection Branch, Public Health Division, Department of Health**

**Summary:** There is potential for human health to be negatively impacted by the construction and operation of the Project. The AROWS project include populations whose health could be impacted directly or indirectly by the construction, commissioning, and operation of the Project. However, the referral has also noted uncertainty in potential impacts to human health and wellbeing, requiring further studies.

Section of Referral	Theme or issue	Comment
Main report – section 5.10	Human health	<ul style="list-style-type: none"> <li>• There are health concerns in relation to potential increase in crocodile movement (i.e moving into Lake Bennet via ARROWS), increasing the risk to residents and visitors. A crocodile population increase and movement assessment is necessary.</li> <li>• The introduction of a large new body of water could potentially lead to increase of mosquito breeding and activity, therefore increasing the risk of serious blood borne diseases. A biting insects assessment and management is necessary.</li> <li>• There could be public safety risks from upset/unplanned conditions (e.g., dam break and spilling). A dam break/ failure assessment is necessary.</li> <li>• There could be potential issues with water quality due to the accumulation of pollutants. Contamination of surface water and groundwater could result from accidental spills (chemicals, fuel etc). Water quality modelling is needed.</li> <li>• There is potential for harmful algal blooms, which frequently occur in reservoirs in tropical and temperate regions, affecting ecological, human, and animal health. Assessment of the likelihood and mitigation measures is required.</li> <li>• If site offices and amenities are to be established, information on types of liquid waste facilities to be installed will be required. There is a need to ensure liquid waste disposal from the project does not result in ground water contamination.</li> <li>• In addition to the Public and Environmental Health Act 2011, the Food Act 2004 is relevant in the event that a workforce camp is established on site. If the camp requires kitchen facilities and the proponent is responsible for food preparation for sale or free provision to workers, food business registration is required.</li> <li>• There is potential for extreme heat risk to workers during constructions, commissioning, and operation of the project. Health impacts to personnel could include heat stress, heat exhaustion, and heat stroke. Mitigation measures should be discussed.</li> <li>• Other public health concerns include the loss of food security, especially if the projects affects agricultural lands. Information on how this will be mitigated should also be provided.</li> </ul>