The overall stormwater design encompassed Water Sensitive Urban Design (WSUD) to maintain the environmental values of the area and receiving waterways.

A complex treatment train was created to best represent the opportunities and constraints of the catchment, paying particular attention to Darwin's specific climate conditions.

Effective and comprehensive liaison with the Northern Territory Government and Planning Commission, the Environmental Protection Authority, the Department of Health (Entomology) and other key stakeholders enabled ADG to deliver an innovative, practical, safe and cost effective solution. ADG’s local knowledge of the Darwin area provided them with the knowledge and skills to approach this project with great success.

This 307ha Brownfield site required extensive flood modelling including a preliminary earthworks design to address specific site constraints. A comprehensive 1D/2D XPSTORM Hydrologic and Hydraulic model was utilised with a 1m fine grid size over the area to clearly understand the existing and developed scenarios. ADG’s models interfaced and were calibrated to existing flood models for surrounding areas.

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