

FACT SHEET

Flooding and Hydrology Impact Assessment



ABOUT THE REPORT

Consultant: Cardno

Aim: Examine flood behaviour within the Activity Area and inform the design of the Tripoli Way Extension.

ASSESSMENT APPROACH

The assessment considered relevant legislation, policies and guidelines, assessed potential impacts on hydrology and flooding and proposed mitigation and management measures that may reduce potential impacts.

The scope of the hydrology and hydraulic investigation for the Flood Assessment included the review, modelling and reporting in the concept design phase. A bridge and road design were refined through additional modelling to inform the design. Following that, additional modelling was undertaken to resolve offsite impacts as a result of the proposed road extension.

REPORT FINDINGS

The assessment demonstrated that the flooding impacts of the project are limited, with no adverse hydraulic impacts. The road is to be flood resilient in the 1-in-20 year flood (5% Annual Exceedance Probability) and the Tripoli Way Extension would improve access for motorists during a flood.

Hydrology is the study of water movement, distribution and management on and below the earth's surface.

An **Annual Exceedance Probability (AEP)** is the probability that a flood of a given (or larger) magnitude will occur within a period of one year. For example, a 1% Annual Exceedance Probability (AEP) Flood means you have a 1-in-100 chance that a flood of that size (or larger) could occur in any one year.



Existing 5% AEP Flood Extent

What is an Environmental Impact Statement?



The EIS identifies and assesses the environmental and social impacts associated with the proposed construction and operation of Tripoli Way, as well as proposing measures to minimise and manage them. The EIS was prepared by SLR Consulting who engaged specialist consultants.

Planning approvals and EIS



The EIS was prepared in accordance with the Secretary's Environmental Assessment Requirements (SEARs). The SEARs identifies matters that must be addressed in the EIS and therefore guides its development. A series of technical studies and reports to assess potential impacts are completed as part of the EIS.

Can I provide feedback?



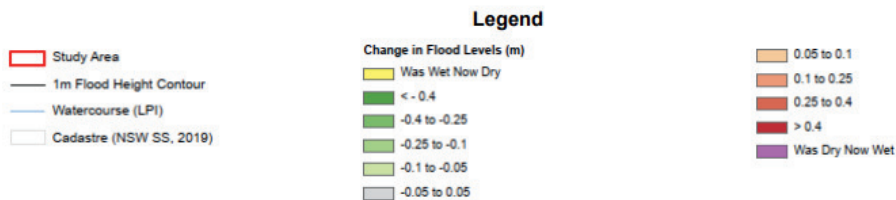
Submissions are invited during the public exhibition stage of the Tripoli Way Extension. All submissions will be submitted to the Department of Planning, Housing, and Infrastructure (DPHI). To find out more visit the Tripoli Way Extension Project page on Let's Chat.

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Flood Impact
Mapping 5% AEP
Event



POTENTIAL IMPACTS AND MITIGATION MEASURES THAT WILL BE APPLIED

Impact

Residential inundation and runoff

Ancillary site flooding

Surface water accumulation

Environmental Safeguard

- Improved drainage systems in place to alleviate runoff capabilities.
- Ancillary sites are not to be established in flood prone areas unless an assessment is undertaken by the contractor with an appropriate flood management plan developed or approval by Council.
- Appropriate drainage design be developed and implemented at ancillary sites.

LEARN MORE

A detailed assessment of flooding is contained in **Section 6.4 of the EIS**.