

## Abstract

The flood study was undertaken in two stages. The aims of each stage of the flood study are:

## Stage 1 - Hydrological Analysis

- Collate all the relevant data on Council's existing stormwater drainage system;
- Develop a hydrological model to investigate the drainage system performance for the 5, 10, 20, 100, 200 year ARI storms and the PMF;
- Identify the flooding problem areas for existing development conditions within the study area;
- Identify the flooding problem areas for ultimate development conditions (represented by all of the study area utilising OSD).

## Stage 2 - Hydraulic Analysis

- Estimate the extent of flooding and flood levels for the PMF, 20 and 100 year ARI floods for existing development conditions, and
- Estimate the 20 and 100 year ARI flood levels and extent of flooding for ultimate development conditions.

## Study Scope

The scope of the Stage 1 flood study was to use a hydrological model to estimate peak pipe and overland flows throughout the North Parramatta Precinct. The peak overland flows were used in the hydraulic modelling in Stage 2 to estimate peak flood levels and flood extents.

Design Rainfall Intensities used for the estimation of peak flows were obtained from Baulkham Hills Shire Council "Design Guidelines for Subdivisions / Developments." Storm durations from 5 minutes to 4.5 hours were used to produce rainfall patterns from which the D NS model estimates peak pipe and overland flows.

The results presented in this report are the *worst case* peak flow for each set of storm durations for a particular ARI storm. Where flood levels are noted, all levels refer to Australian Height Datum (m, AHD)

### Resource locator

[North Parramatta Precinct - Flood Study](#)

Name: North Parramatta Precinct - Flood Study

Protocol: WWW:DOWNLOAD-1.0-http--download

Function: download

[North Parramatta Precinct - Flood Study Figures](#)

Name: North Parramatta Precinct - Flood Study Figures

Protocol: WWW:DOWNLOAD-1.0-http--download

Function: download

### Unique resource identifier

Code

58daf6fb-1eca-4b98-a500-75df26f97db8

Presentation form

Edition

26/06/2017

Dataset

language English

## Metadata standard

Name ISO 19115

Edition 2016

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/58daf6fb-1eca-4b98-a500-75df26f97db8>

Purpose Land and Resource Management

Status On going

## Spatial representation

Type vector

## Spatial reference system

Code identifying the spatial reference system 4283

## Topic category

<b>Keyword set</b>	
keyword value	
<b>Originating controlled vocabulary</b>	
Title	ANZLIC Search Words
Reference date	2008-05-16
<b>Geographic location</b>	
West bounding longitude	150.993347
East bounding longitude	151.008625
North bounding latitude	-33.790849
South bounding latitude	-33.774334
NSW Place Name	Northmead
<b>Vertical extent information</b>	
Minimum value	-100
Maximum value	2228
<b>Coordinate reference system</b>	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
<b>Temporal extent</b>	
Begin position	
End position	N/A
<b>Dataset reference date</b>	
<b>Resource maintenance</b>	
Maintenance and update frequency	As needed
<b>Contact info</b>	
Contact position	Data Broker
Organisation name	The Hills Shire Council
Full postal address	info@www.thehills.nsw.gov.au
Email address	<a href="mailto:info@www.thehills.nsw.gov.au">info@www.thehills.nsw.gov.au</a>
Responsible party role	pointOfContact
<b>Limitations on public access</b>	

## Responsible party

Contact position	Data Broker
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Responsible party role	pointOfContact

## Metadata point of contact

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Responsible party role	pointOfContact

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**Metadata language**