

Public Exhibition: Review of Liverpool Overland Flow Path Study- Cabramatta Creek Catchment

Background

Liverpool City Council has completed the 'Review of Liverpool Overland Flow Path Study – Cabramatta Creek Catchment' and is seeking feedback to better support future flood risk management and planning decisions.

The flood study area is heavily urbanised, and extends across parts of the suburbs of Liverpool, Warwick Farm, Casula, Mount Pritchard, Ashcroft, Sadleir, Cartwright, Miller, Busby, Heckenberg, Green Valley, Hinchinbrook, Prestons, Carnes Hill, Horningsea Park, West Hoxton, Middleton Grange, Cecil Park, Elizabeth Hills, Len Waters Estate, and Cecil Hills. The study focused on stormwater flooding: "mainstream" flooding from Cabramatta Creek and other creeks in the catchment was not explicitly considered.

The flood study documents flood behaviour across the catchment for a range of historic and design flood events, including information on flood discharges, levels, depths, flood risk and flow velocities.

Study Approach

Computer models were developed to simulate the transformation of rainfall into runoff, and to predict flood characteristics such as water depth and velocity. The reliability of the results produced by the computer models was verified against the following historic floods:

- February 2020
- March 2022
- July 2022
- April 2024

The model verification involved comparing historical flood information provided by Council and the community (including flood photographs) to ensure the models could reliably represent these past floods (see **Image 3** on the right).

The verified models were then used to define flood behaviour for a range of 'design' flood sizes, such as the 1% AEP (1 in 100 chance per year flood), which is used to inform planning and risk management decisions to protect the community and inform emergency response planning.

Study Outcomes

The model development, verification and results from the study have been documented in a draft flood study report. The report includes detailed mapping for a range of possible flood events (including the Probable Maximum Flood, which is the largest flood that could occur) showing:

- Flood depths and levels
- Floodwater velocity
- Flood hazard
- Flood function
- Flood risk precincts/flood planning Area.

Examples of the 5% AEP flood depths and 1% AEP flood depths produced as part of the study are shown in **Image 1** and **Image 2**.

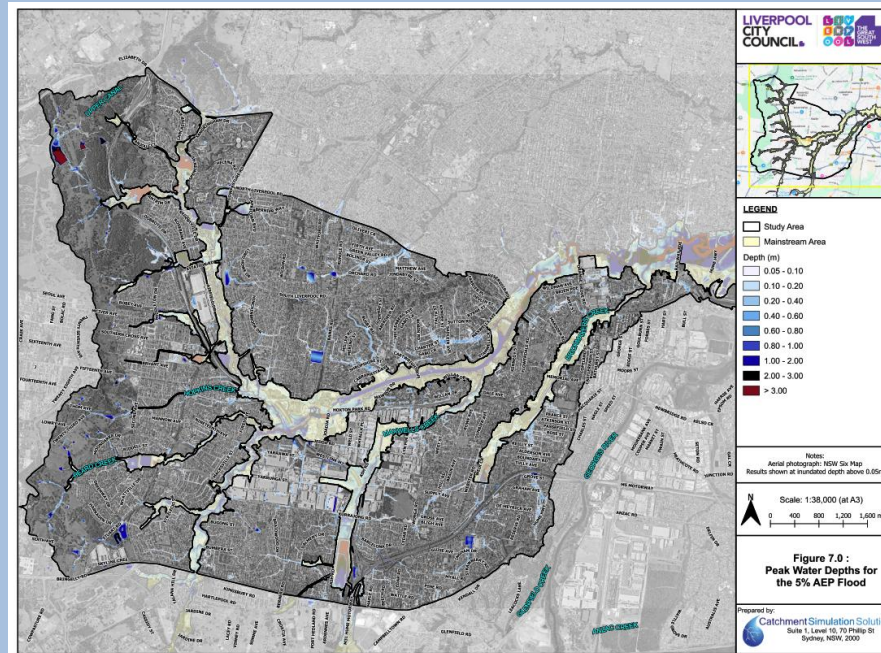


Image 1: Study area, together with 5% AEP flood depths

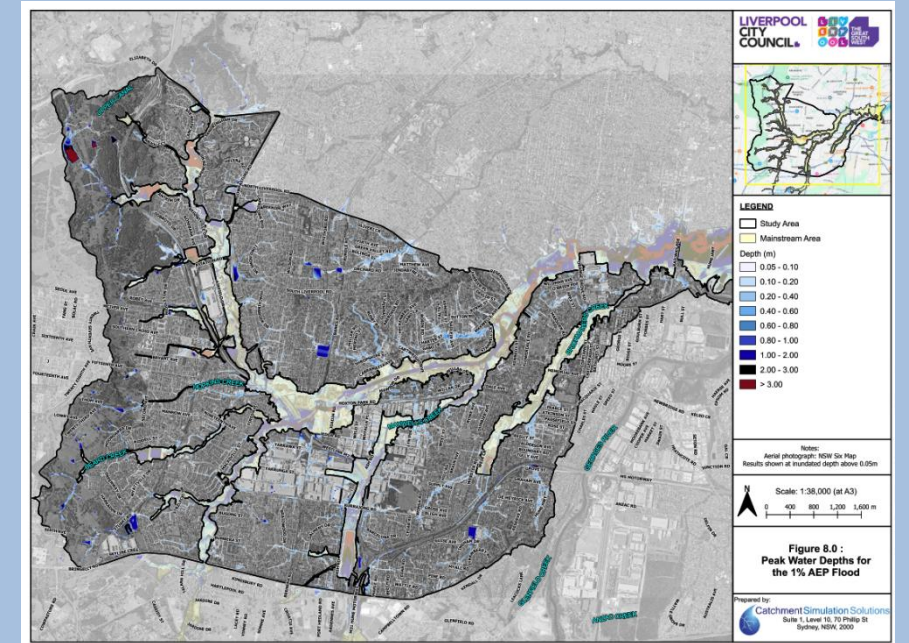


Image 2: Study area, together with 1% AEP flood depths

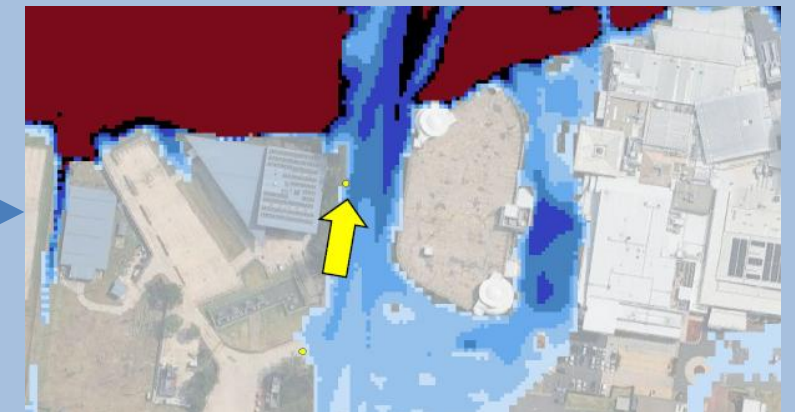


Image 3: Council photograph near the Liverpool Catholic Club (left) showing debris line for the February 2020 flood event, compared to the flood model results for that event (right) showing good agreement on flood extent.

What's Next?

Council is seeking feedback and comments on the draft report, which will be considered before completing the report. Council will then have the opportunity to adopt the study, which can serve as the basis for a Floodplain Risk Management Study that will examine ways to better manage flood risk.

Feedback and comments on the draft Flood Study can be submitted to Liverpool City Council at <https://listens.liverpool.nsw.gov.au/> and click for "Public Exhibition - Review of Liverpool Overland Flow Path Study – Cabramatta Creek Catchment", or by scanning the QR code or by emailing the community submission form: lcc@liverpool.nsw.gov.au.

Submissions must be received by **28 September 2026**.

Copies of flood study can be viewed by scanning the QR Code below and completing your submission online.

