

Flood Modelling investigations

The flood model was developed specifically for Northeast Business Park. It will inform the master plan of flood levels and mitigation works necessary to meet the Council's floodplain policy.

Voices of the community

"What will the effects be on properties on Cobbs Rd as water drains there? Hope development will help in draining the water away."

– *Burpengary resident*

" This is a very positive plan for the area. My only concern is flooding."

– *Burpengary resident*



Independent consultants Parsons Brinkerhoff used specialised software (Mike21) to model the site in two-dimensional space.

This model was used to examine previous floods.

The results showed that the updated baseline model could be used with confidence to predict the impacts within the floodplain for the development scenario.

The model showed that flood mitigation works are necessary as there may be increases in peak flood levels across significant areas of the floodplain.

Flood mitigation works included 200+ model runs. A series of earth embankments were designed to re-direct the floodwater into the navigational channel of the Caboolture River. In addition, grass management areas were included to increase the conveyance of floodwater through the development site.

Further work will be undertaken to ensure the detailed designs crossing the floodplain comply with approved recommendations, and any negative impacts are mitigated to meet Council's requirements.