

21 March 2018

Ref: 172318 CR01-A

Sujata Bajracharya

Tonkin Zulaikha Greer Architects

117 Reservoir Street

Surry Hills, NSW 2010

Dear Sujata,

RE: Civil Preliminary Report – UTS Blackfriars

Northrop Consulting Engineers have been engaged to provide flood advice for the proposed UTS Blackfriars development at 4-12 Buckland Street, Chippendale. The proposed development falls within the Blackwattle Bay Floodplain Risk Management Study (2015), a recent study completed by WMA water. The advice supplied herein is based on a review of the below documents;

- City of Sydney Blackwattle Bay Catchment Floodplain Risk Management Plan September 2015
- WMA flood assessment letter with site specific flood advice dated April 2016
- City of Sydney Interim Floodplain Management Policy May 2014

Flood Behavior and Levels

Based on flood modelling prepared by WMA main stream flooding occurs on both Blackfriars Street and Buckland Street, which serve as access roads to the property on the north and west of the property. The peak flood level was located on the southern boundary and was found to be 9.25m AHD in the 1% AEP event and 10.05m AHD in the PMF event. Inundation depths. In the street vary from 0.6m to 1.7m in the 1% AEP event.

Flood planning Level Requirements

To comply with City of Sydney (Council) requirements the following Flood Planning Levels for the proposed UTS Building development are to be adopted considering the flood model prepared by WMA.

- **9.67m AHD** (minimum 1% AEP + 0.5m) if there is no basement
- **10.08m AHD** (1% AEP level + 0.5m) if basement levels are proposed. This level would need to be adopted at all ingress points to the basement such as car park entrances and exists, ventilation ducts, windows, light wells, lift shaft openings, risers and stairwells

Regards,


Steven Naumoski

Steven Naumoski

Senior Civil Engineer