

Natural Environment Referral Response - Flood

Application Number:	DA2021/0179
Date:	09/03/2022
To:	Rebecca Englund
Land to be developed (Address):	Lot 8 DP 604034 , 255 Condamine Street MANLY VALE NSW 2093

Reasons for referral

This application seeks consent for the following:

- All Development Applications on land below the 1 in100 year flood level;
- All Development Applications located on land below the Probable Maximum Flood levels.

And as such, Council's Natural Environment Unit officers are required to consider the likely impacts on drainage regimes.

Officer comments

Subject to conditions the development is compliant with Council's flood prone land development controls

The proposal is therefore supported.

Note: Should you have any concerns with the referral comments above, please discuss these with the Responsible Officer.

Recommended Natural Environment Conditions:

CONDITIONS TO BE SATISFIED PRIOR TO THE ISSUE OF THE CONSTRUCTION CERTIFICATE

Flooding

In order to protect property and occupants from flood risk the following is required:

Flood Effects Caused by Development – A2

There is to be no filling of the land or any other reduction of the available flood storage which results in a net loss of storage below the 1% AEP flood level of 11.2mAHD.

Building Components and Structural Soundness – B1

All new development below the Flood Planning Level of shall be designed and constructed as flood compatible buildings in accordance with Reducing Vulnerability of Buildings to Flood Damage: Guidance on Building in Flood Prone Areas, Hawkesbury-Nepean Floodplain Management Steering Committee (2006).

Building Components and Structural Soundness – B2

All new development must be designed to ensure structural integrity up to the Probable Maximum Flood, taking into account the forces of floodwater, wave action, flowing water with debris, buoyancy and immersion.

Building Components and Structural Soundness – B3

All new electrical equipment, power points, wiring, fuel lines, sewerage systems or any other service pipes and connections must be waterproofed and/or located above the Flood Planning Level of 11.73mAHD. All existing electrical equipment and power points located below the Flood Planning Level must have residual current devices installed to cut electricity supply during flood events.

Floor Levels – C1

New floor levels within the development shall be set at or above the Flood Planning Level (FPL) of 11.73mAHD.

Floor Levels – C3

The underfloor area of the dwelling below the 1% AEP flood level of 11.2mAHD is to be designed to allow clear passage of floodwaters.

Car parking – D5

The floor level of the proposed garage shall be set at or above the FPL flood level of 11.73mAHD.

Flood Emergency Response –E1

The stairwell near the ground floor units must be accessible to all the occupants of the units as a shelter in place area.

Storage of Goods – G1

Storage areas for hazardous or potentially polluting materials shall not be located below the Flood Planning Level of 11.73mAHD unless adequately protected from floodwaters in accordance with industry standards.

Details demonstrating compliance are to be submitted to the Certifying Authority prior to the issue of the Construction Certificate.

Reason: To reduce the impact of flooding and flood liability on owners and occupiers of flood-prone property and reduce public and private losses in accordance with Council and NSW Government policy.

CONDITIONS WHICH MUST BE COMPLIED WITH PRIOR TO THE ISSUE OF THE OCCUPATION CERTIFICATE

Certification of the Structural Stability of the Building (B2)

A suitably qualified structural engineer is to certify the structural stability of the new development considering lateral flood flow, buoyancy, suction effects, wave action and debris load impact of the Probable Maximum Flood (PMF) design flood depths and velocities.

Details demonstrating compliance are to be submitted to the Certifying Authority for approval.

Reason: To reduce the impact of flooding and flood liability on owners and occupiers of flood-prone property and reduce public and private losses in accordance with Council and NSW Government policy.

Certification of Services (B3)

A suitably qualified electrical engineer or contractor is to certify that all new electrical equipment, power

points, wiring, fuel lines, sewerage systems or any other service pipes and connections are located above the Flood Planning Level and any existing electrical devices, wiring and the like located below the FPL are protected from water egress or have residual current devices installed to cut electricity supply during flood events of 11.73m AHD

Details demonstrating compliance are to be submitted to the Certifying Authority for approval.

Reason: To reduce the impact of flooding and flood liability on owners and occupiers of flood-prone property and reduce public and private losses in accordance with Council and NSW Government policy.

Undercroft Area below the 1% AEP Flood Level – (C3)

A restriction shall be imposed on the title of the land, pursuant to S88B of the Conveyancing Act confirming that the undercroft area does not impede flows and is not to be enclosed, with the perimeter having a minimum of 50% open area from the natural ground level up to the 1% AEP flood level.

The terms of such a restriction are to be prepared to Council's standard requirements at the applicant's expense and endorsed by Council prior to lodgement with NSW Land Registry Services. Northern Beaches Council shall be nominated as the party to release, vary or modify such restriction.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of the Occupation Certificate.

Reason: To reduce the impact of flooding and flood liability on owners and occupiers of flood-prone property and reduce public and private losses in accordance with Council and NSW Government policy.

ON-GOING CONDITIONS THAT MUST BE COMPLIED WITH AT ALL TIMES

Flood Management

Storage of Goods (G1)

Hazardous or potentially polluting materials shall not be stored below the Flood Planning Level of 11.73m AHD unless adequately protected from floodwaters in accordance with industry standards.

Flood Effects Caused by Development (A2)

There shall be no filling of the land below the 1% AEP flood level of 11.23m AHD, or obstruction of flow paths through the property. This includes the blocking of areas required by DA consent to be left open.

Flood Emergency Response (E1)

Appropriate access to an area above the Probable Maximum Flood level of 12.6m AHD is to be maintained at all times from all areas within the development.

Reason: To reduce the impact of flooding and flood liability on owners and occupiers of flood-prone property and reduce public and private losses in accordance with Council and NSW Government policy.