

Natural Environment Referral Response - Flood

Application Number:	DA2020/0434
Date:	13/05/2020
To:	Nick Keeler
Land to be developed (Address):	Lot 7 DP 6445 , 62 Mactier Street NARRABEEN NSW 2101

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

The application to construct a primary and secondary dwelling generally complies with Council's controls for flood prone land, subject to conditions and the recommendations of the Flood Management Report prepared by Steve Wyllie.

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:

Building Components and Structural Soundness – C1

All new development 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 – C2

All new development must be designed and constructed to ensure structural integrity up to the Probable Maximum Flood level of 5.0m AHD, taking into account the forces of floodwater, wave action, flowing water with debris, buoyancy and immersion. Structural certification shall be provided confirming the above.

Building Components and Structural Soundness – C3

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 3.55m AHD.

Storage of Goods – D1

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

Flood Emergency Response – E2

Appropriate access to the shelter in place refuge should be available from all areas of the new development.

Floor Levels – F1

New floor levels within the development shall be set at or above the Flood Planning Level of **3.55m AHD**.

Floor Levels – F2

The underfloor area of the dwelling below the 1% AEP flood level is to be designed and constructed to allow clear passage of floodwaters. The underfloor perimeter of the dwelling is to have a minimum of 50% open area below the 1% level

Car parking – G4

Vehicle barriers or restraints are to be installed to a minimum height of the Flood Planning Level.

Perimeter walls/louvres installed as vehicle barriers or restraints are to be designed to allow flood waters to pass through and are to have a minimum of 50% open area below the 1% flood level.

Car parking – G6

Car ports are to be designed to allow flood waters to pass through and are to have a minimum of 50% open area below the 1% flood level.

Fencing – H1

New fencing (including pool fencing, boundary fencing, balcony balustrades and accessway balustrades) shall be open for the passage of flood waters - All new fencing on the property must be designed with a minimum of 50% open area between the 1% flood level and natural ground level, to allow flood waters to pass through.

Recommendations

The development must comply with the following recommendations in the Flood Management Report Addendum prepared by Pittwater Data Services Pty Ltd dated 17 February 2020:

- An access key is to be provided to the primary dwelling in a wall mounted key storage box as depicted in Figure 1 with a code issued to the residents of both dwellings.

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

Flooding

Certification of the Structural Stability of the Building (C2)

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.

Undercroft Area below the 1% Flood Level - F2

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.