

Asset Owner / Specialist Response

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Overall Summary:

Watercare has completed an assessment based on the provided information for the proposed development, including 246 residential dwellings, three 100m² shops, a 100m² café, and a 100m² community centre.

The local water network needs to be upgraded to ensure a resilient supply to the proposed development. The 100mm road crossing on West Coast Road and the 100mm AC along the northern part of the development requires upgrading to 200mm ID watermains.

Based on the provided information and the survey data provided by Civix, it is considered the downstream wastewater network does not currently have sufficient capacity for the expected flows from this development. To enable this development, a section of the downstream wastewater networks needs to be upgraded. This wastewater network runs through several private properties and will require land owner approval to undertake the required upgrades. The final alignment for the upgraded network will need to be confirmed as part of the design process prior to the Resource Consent.

Water Supply

The development required the water supply network to be upgraded to ensure sufficient reliance of supply. Specially, the 100mm road crossing on West Coast Road and the 100mm AC along the northern part of the development requires upgrading with 200mm ID watermains. The design needs to be provided and confirmed as part of the Resource Consent process. The figure below show the required upgrades.

Watercare notes that only FW2 fire fighting flow classification can be supplied through the water network. Any additional fire demand for the commercial units needs to be provided through private measures such as private tanks and pumps.

Figure 1: Water Supply Upgrade Requirements



Wastewater Network

Based on the provided information and the survey data provided by Civix, the downstream network does not have sufficient capacity for expected flows from this development.

In addition to the proposed network renewal in the infrastructure report, the pipes from Manhole COMPKEY 1197305 (GIS ID: 430688) to 1209979 (GIS ID: 448500) (a length of approximately 130m) need to be upgraded from 225mm to 300mm to alleviate downstream capacity constraints. It is noted the existing alignment appears to go through private property in places, so the actual alignment for the upgrade would need to be confirmed as part of the design process. Further investigation is required to confirm the upgrade requirements