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06/05/2021

Alastair Turnbull
Civix Ltd Consultants
87 Albert Street
Auckland

Dear Alastair,

Re: Initial high-level assessment and consultation for water and wastewater capacity and servicing option for 4 Scott Road, Hobsonville

Watercare application number **CON-74371**

We have completed an assessment for the proposed 444 units at 4 Scott Road, Hobsonville. There are constraints identified in the current water and wastewater network as at today's date. The timing of development is critical given other works in the area, and we will need to assess the upgrade requirements in more detail when you apply for resource consent.

Wastewater:

Watercare has assessed the proposed option to service this site, and confirm that the preferred option is A new wastewater pumpstation at 4 Scott Road. This pump station will need to have capacity to service # 2, # 4 and # 6 Scott Road. The cost of the pump station will need to be fully funded by the developer.

The option to upgrade the Brickwall pump station does not appear to be feasible due to the small size of the pumpstation and the rising main.

For the new pumpstation, the key considerations are:

- The rising main and discharge location from the new pumpstation suitably designed and built to work in with original servicing considerations and the existing infrastructure. Particular attention must be given to the likelihood of high hydrogen sulphide levels at the discharge location, particularly if there are multiple rising main discharges.
- The discharge location will be dependent on detailed design and a capacity assessment of the downstream infrastructure. The location is anticipated to be between manhole 1392247 and 2705197, however this is subject to confirmation of suitable capacity in the downstream network and design considerations within the manhole being capable of supporting an additional rising main discharge.
- An emergency overflow to stormwater or directly to the receiving environment will need to be constructed and authorised by network discharge consent.

Water:

Due to the number of consented developments within the Scott's Point area the two existing 180mm watermain located on Scott Rd have reached the capacity. Therefore, to enable 4 Scott Road development to occur an additional watermain supply is required for capacity and resilience.

In accordance with the strategic servicing plan for the area, a new 250mm OD (200mm ID) watermain is required to link the existing 250mm OD on Joshua Carder Drive to the two 250mm ODs water mains on Squadron Drive and continuation of the water mains to Joshua Carder Drive to the north.



We note that a new road is proposed to link these two areas as shown in attached. This is a proposed recreational area with construction starting in August 2021.

The 4 Scott Road development will need to install the new watermain with this road construction to complete this loop. Watercare understands that the northern section (past the roundabout) falls into a recently approved Resource Consent for another developer. The plans show they will complete sections of the 250mm OD in the north. 4 Scott Road should liaise with this development to confirm the timing to enable connectivity.

It is a condition that the 250mm OD loop is completed before the first house is connected at 4 Scott Road.

You will need to include the following information in the infrastructure report when you lodge your resource consent application:

- A completed water and wastewater planning assessment form (available on the Watercare website)
- A plan showing the proposed location and size of the water and wastewater connections
- Design flows in accordance with the Watercare Code of Practice for Development
- Contributing catchment analysis showing calculations
- Hydrant flow test results

- Location of the pump station, including demonstrating truck access in accordance with Watercare standards and the location of the Emergency Overflow Point.

If applicable the following requirements may also need to be included in the infrastructure report:

- Confirmation of development scale and any changes
- Acknowledgement of additional development in the contributing catchment which may affect water and wastewater network capacity
- Acknowledgement of any catchment network changes as a result of upgrades or any additional information that was not taken into consideration as part of this assessment
- Watercare would like to accept gravity option only no private pumps will be accepted. There is no cost sharing option available
- Bulk water meter to be installed outside the private property to service water

Please note, as part of the water reticulation design, the infrastructure report should consider boost pumping to upper levels of buildings of more than two storeys. Once consented, it is the responsibility of the building owner to conduct a periodic review of sprinkler design flow and pressure against available pressure and flow from the Watercare network.

Yours faithfully,



Nita Dharmadhikari
Developments Engineer
Developer Services