

Omaha stormwater improvements : project update

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Healthy Waters update for Omaha



May 2022

UPDATE ON OMAHA STORMWATER PROJECTS

Kia ora Omaha community,

The Healthy Waters team has restarted work to reduce flooding issues in Omaha.

In 2020 several projects in the area were deferred due to the implementation of Auckland Council's Emergency Budget in response to the impact of the COVID-19 crisis on our finances.

We have now restarted this work programme, and have recently commenced work on the upper end of Darroch Slope.

As this work is ongoing, we'd like to connect with more Omaha property owners. Please forward this to your Omaha friends, family and neighbours and ask them to subscribe, so we can send them details and future updates.

You are always welcome to contact us, either by replying to this email, or emailing omahaproject@aucklandcouncil.govt.nz



Omaha outfall development

THE KEY TO YOUR STORMWATER NETWORK

The Healthy Waters team is continuing to develop an overall solution to relieve Omaha's flooding.

Our starting point was the stormwater outfall at the Omaha boat ramp. Each element of the stormwater network in the northern part of Omaha must connect to this outfall. This means that the location and design of the outfall needs to be 100 per cent finalised before other parts of the network are improved.



We applied for resource consent for work at the boat ramp in January 2022 and are currently waiting for approval. A detailed design is in progress and expected to be complete this month.

An outfall is a crucial part of any stormwater network, to disperse stormwater (which is essentially rainwater) out to sea. In Omaha this is particularly challenging because of the flat geography and high-water table. Omaha is fortunate to have a modern network that is well maintained, meaning that the chance of anything other than stormwater entering the sea via this outfall is very small. The outfall will be carefully designed to minimise any erosion or scouring because of the water flow.

Darroch Slope - upper end works



As an upstream location, interventions including swales, channels, soakholes and manholes along the footpath will capture and re-direct water flows into the existing stormwater pipe downstream. Work has begun on this project and will continue through until September 2022.

Upgrades include:

- Construction of stormwater swales and soakage pits on both sides of Darroch Slope;
- Construction of a channel drain across existing concrete driveways on 7-19 and 2-20 Darroch Slope;
- Construction of a stormwater pipe crossing across Kitty Frazer Lane;
- Construction of a swale, a channel drain and a soakage pit inside the walkway between 4 Shamrock Crescent and 3 Darroch slope.

Traffic management will be in place during this project. Some pedestrian access will be redirected for safety

Darroch Slope - lower end works



The lower end of Darroch Slope is characterised by flat terrain and a high ground water level. This presents technical challenges and the proposed solution is a complex, \$10 million project that includes large pipes and pumps to carry stormwater away from the area so that it can drain to sea.

A feasibility design has been completed and additional investigation works are being completed as proof of concept and to ensure the design is fit for purpose.

Next steps:

- Continued extensive investigation and assessment of the site, hydrology and groundwater behaviours
- Feasibility design to be re-worked and design options to be refined commencing June 2022.

Day Dawn Crescent, Edith Place, Thistle Terrace and Esme Grove

STILL UNDER INVESTIGATION

New swales and a channel, a new stormwater pipe and an upgrade of the existing stormwater pipe will be installed to reduce flooding issues. Feasibility design completed with the assumption that downstream option is resolved. This project has been put on hold until the downstream site Darroch Slope Ponding is designed.

The flooding issues in Thistle Terrace and Esme Grove will also be investigated and designed once the Darroch Slope Ponding site has been designed.

Next steps:

- Once designs for Darroch Slope (the lower end of works) are finalised, we can recommence these projects



Managing blocked gully traps

Omaha is built on sand dunes, which can be easily pushed around by wind and floods. The catchpits in Omaha are soakage systems and do not cope with heavy rain.

Auckland Transport manages the road sweeper that come around about four times a year to clean the tops of all catchpits. If you notice a blocked catchpit after a storm, call Auckland Transport to clear it catchpit and sweep the road.

Healthy Waters also clean the sumps under the gully once a year. We can clean hot spots when we get a rain warning that block and cause significant property damage. We do this on a case by case basis after assessing the urgency and need. In a lot of cases it's possible to provide a secondary overland flow path around a building.

Click [here](#) to find out more about protecting your home from overland flow.



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