
Omaha stormwater improvements : project update

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28 November 2019 at 15:41

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Healthy Waters update for Omaha

November 2019

Thank you to those who have signed up to receive Healthy Waters' updates about ongoing work to reduce flooding issues in Omaha.

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 issues of the newsletter.

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



Milestone reached in outfall development

GOOD THINGS TAKE TIME!

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

Our starting point is 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% finalised before some of the other parts of the network can be improved.

In 2018 we started with three options, all in the vicinity of the Omaha Boat Ramp. We considered an outfall adjacent to the boat ramp, we even considered incorporating it into the jetty, and we looked at another location to the south of the ramp. For each option we have undertaken computer modelling, geotechnical investigations, and checked in with stakeholders.



After all this investigation, we have decided to progress with the southern location, pictured.

We have a high degree of confidence in this solution, and we are nearly there with its design and associated studies. Once this outfall has resource consent, we can progress with some of the projects that have been awaiting this decision, including work in Upper Darroch Slope.

This is good news for Omaha's stormwater projects and it's a great milestone. Thanks for bearing with us through what has been a lengthy but important process.

About the Omaha outfall

THE KEY TO YOUR STORMWATER NETWORK

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 as a result 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. The completed feasibility design has shown this to be a practical project that will deliver improvements.

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, multi-million dollar project that includes large pipes and pumps to carry stormwater away from the area so that it can drain to sea.

Next steps:

- Preliminary design
- Preparing Resource Consent application

Those living in The Southern Isle will have received notification letters in early October 2019 prior to resource consent application. Those living in Darroch Slope will receive notification letters shortly.

Pending Resource Consent, we intend to commence construction in September 2020.

This project is dependent on funding. We will update you on this, and likely timelines, as we work further through the process.

Next steps:

- Extensive investigation and assessment of the site, hydrology and groundwater behaviours
- Completion of feasibility design assessments, followed by project design

Day Dawn Crescent and Edith Place

New swales and a channel, a new stormwater pipe and an upgrade of the existing stormwater pipe will be installed to reduce flooding issues in Edith Place and Day Dawn Crescent. Early designs are complete. This solution is physically linked with the project in Darroch Slope and requires design for that project to be finalised in order to progress. We are working towards starting construction in 2021.

Next steps:

- Once designs for Darroch Slope are finalised, we can recommence this project.

We are continuing to investigate these projects:

- Flooding issues in Thistle Terrace and Esme Grove have been assessed and solutions will be progressed to feasibility design in coming months
- Maintenance of vegetation in sand dunes at Inanga Lane Pond, and replanting, are starting this month. We are investigating the potential of an modifications to the pond to help relieve flooding issues. This could include converting the pond into a wetland which will provide improved ecological habitats while improving drainage and stormwater filtering



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