# **Project update**

## Elsternwick Main Drain flood mitigation project December 2020

Melbourne Water is progressing the Elsternwick Main Drain flood mitigation project and is pleased to provide an update on the status of this work.

## **Analysis and preferred option**

Melbourne Water identified two technically feasible options to mitigate flooding in this location:

- Option 1 increasing the capacity of the retarding basin by an additional 60,000m<sup>3</sup>
- Option 2 increasing the capacity of the diversion drain.

Melbourne Water has assessed these options and identified increasing the capacity of the diversion drain as the preferred option (option 2).

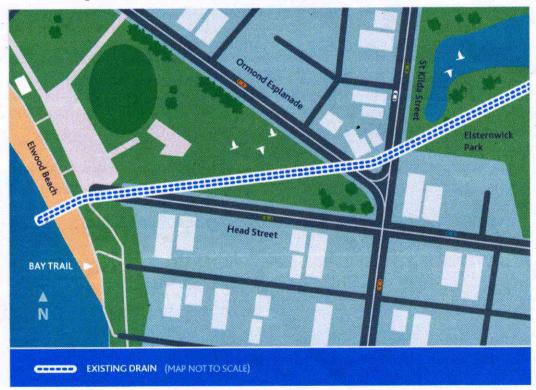
Our assessment of these options considered:

- the impact on economic damages
- the number of floors and properties protected from flooding
- · improvements in safety.

Our analysis showed increasing the capacity of the diversion drain provides better flood mitigation and would have a smaller impact on the park and existing users.

In addition, option two provides a stronger cost to benefit relationship than option one.

## Location of existing diversion drain and investigation area







### Water quality treatment opportunities

Melbourne Water is continuing to investigate water quality treatment opportunities with Bayside Council. Incorporating water quality wetlands could potentially reduce sediments and pollutants entering Port Phillip Bay and improve the health of the bay. The proposed wetland design could provide:

- significant reduction in Nitrogen entering the bay.
- ongoing liveability benefits to the community.
- an opportunity for increased participation rates by supporting community groups and promoting participation in citizen science and Elster Creek Working Group projects.

#### **Next steps**

A detailed investigation into the diversion option is now underway. This will include undertaking:

- · further modelling
- investigations into geology, existing infrastructure, services etc.
- design development
- · investigations into regulatory permissions
- work to identify the necessary environmental impact assessments and heritage assessments
- · consultation and impact studies

We will continue to work closely with the City of Port Phillip, Bayside City Council and other key stakeholders to develop the project.

We will keep you informed as we develop a program of engagement opportunities.

For more information about our other activities please call 131 722 or visit www.melbournewater.com.au.





