

Plimmerton Stormwater Catchment Management and Improvements Project: Taupō Stream / James Street Catchment Phase 1

Project overview

Wellington Water (WWL) and Porirua City Council (PCC) are undertaking a review of possible stormwater management options for James Street and the adjacent state highway roundabout in the Taupō Stream catchment.

With previous flooding events in this catchment, an appropriate catchment specific option needs to be identified in order to keep people and property safe and healthy. This project is subject to the WWL service objective associated with reducing the effects of flooding.

Table 1: Customer outcomes and service goals for this project



Primary customer outcome		Outcome 3: Resilient networks support our economy
Primary goal		3.1 We minimise the impact of flooding on people's lives and proactively plan for the impacts of climate change
Secondary customer outcome		Outcome 1: Safe and healthy water
Secondary goal		1.4 We minimise public health risks associated with wastewater and stormwater

Table 2: Wellington Water primary service objectives and performance measures for this project

Primary service objectives and performance measures	
Primary service objective	Potential impact of flooding on property & key transport links from stormwater is identified and the impacts are minimised
Primary performance measure	<p><i>Reduce the effects of flooding</i></p> <p><u>No of Habitable floors</u> - Predicted habitable floors flooded for < 1:10 yr and 1:100 yr floods.</p>

	<p><u>Key Transport Routes</u> – Predicted length of key transport routes flood during < 1:10 yr flood event to >150mm at kerbside</p> <p>For SH1/Plimmerton roundabout the target level of service shall be 1:100 yr flood event with the required free board.</p>
--	---

Table 3: Wellington Water Secondary service objectives and performance measures for this project

Secondary service objectives and performance measures	
Secondary service objectives	<ul style="list-style-type: none"> • The public is protected from direct exposure to untreated wastewater onto land • Asset safety risks are identified and improved
Secondary performance measures	<ul style="list-style-type: none"> • Number of wet weather overflows onto land is reduced • All public stormwater assets (existing and new) meet the Wellington Water health and safety requirements. Any existing operational risks are identified and changes to the assets are included in the design.

Summary

The Stormwater Management and Improvements Project will be delivered in two phases. The first phase (Phase 1) will involve investigation and optioneering, the second phase (Phase 2) will involve design, contractor engagement and project delivery.

The objective of Phase 1 is to conclude on a preferred stormwater management option with input from Wellington Water (WWL), Porirua City Council (PCC), Waka Kotahi, Plimmerton Farms, consultants and stakeholders (including residents). The process and reasoning for the selection of the preferred option will be detailed within the report.

The deliverables in Phase 1 of the project shall include:

- Project management plan outlining the methodology, project resources, project schedule, consultation and workshops and expected project costs (at conception).
- Project communication plan.
- Multi Criteria Analysis (MCA) Process and Report:
 - Preparation and presentation of long list of options
 - Evaluation and development of short list options (or combination of options).

PCC Stormwater Catchment Management and Improvements MCA Process

