

Roxburgh Cres Growth Program - Long Term Plan

This memo outlines the long-term plan for the Roxburgh Cres Growth Program, including its multi-year funding and associated timeline. The plan establishes a catchment-wide strategy to optimize the opportunity for upgrading the pipe beneath the stop bank, thereby reducing flood risk across the area. The proposed pipe upgrades aim to mitigate flooding and achieve the desired level of service (LOS) for the broader catchments, spanning from Pahiatua Street in the west to Newcastle, Swansea, Bond, and Godwyn Crescent in the east. Figure 1 illustrates the scope of the planned pipe upgrades for the catchment jointly funded under this Growth Program and the City-Wide SW Improvement Program.



Figure 1 – Scope of Pipework Upgrades

The budgets allocated in the Long-Term Plan (LTP) cover, but are not limited to, the following:

- Stormwater pipe work design
- Geotechnical and hydrogeological investigations
- Contaminated land site investigations
- Obtaining resource consent from the Regional Council for construction under the stop bank
- All construction activities related to pipe upgrades, including micro-tunnelling and outfall improvements to the river

The project is scheduled over five financial years, beginning in June 2024 (Year 1) and concluding in 2029 (Year 5).

A total of \$430,000 has been allocated for Years 1 and 2 to support field investigations, associated reporting, consent applications, and detailed design completion. Years 3 to 5 focus on the implementation of physical works on-site, with approximately \$2.4 million budgeted

in Years 3 and 4 to duplicate the DN900 pipe and upgrade the DN300 pipe within Roxburgh Crescent.

Additionally, budgets for pipe upgrades on Pahiatua Street and Ruahine Street, beyond Roxburgh Crescent, are included in the city-wide capital improvements program. These cost estimates are based on preliminary designs, and final costs may vary depending on the Engineer's estimate.

The existing pipeline of DN675/750 through Roxburgh Cres to the outfall will remain in place. Budgets have not been allocated in the LTP to relocate the existing pipe. A new DN900 pipe will be installed in parallel to the old alignment to provide for additional capacity. An easement will be created over the existing and the new pipe alignment through the plan change process.

Table 1: Long Term Plan (Cost and Timeline)

| Pipe Upgrades | Program | Y1 | Y2 | Y3 | Y4 | Y5 |
|---|--------------------------|-----------|-----------|-------------|-----------|-----------|
| Roxburgh Cres DN900 duplicate & DN300 | Growth | | | \$82,386 | | 1,153,404 |
| Pahiatua/Ruahine DN900& DN750 Upgrade | City-Wide Improvement | \$292,500 | \$136,896 | \$1,678,415 | \$723,295 | |