

1. Pipeline – Gertrude Street

WHAT IS THE PROJECT?

This project would involve building a large underground stormwater pipe (1.8 metres wide) starting at the corner of George Street and Gertrude Street. It would connect to the existing drainage in Gheringhap Street as shown by the red line below. The project aims to move stormwater out of the area quicker to reduce the risk of flooding.

HOW WOULD THIS HELP?

- > **Before the project:** The study suggests approximately 92 properties are likely to remain at risk of flooding in an intense rain event (1 per cent AEP).
- > **After the project:** The study suggests approximately 10 properties remain likely to remain at risk of flooding in an intense rain event (1 per cent AEP).

Results are based on computer modelling of the catchment area.

FURTHER INFORMATION:

- > Design and construction of this project is expected to be very complex.
- > Works involve deep trenches along and across roads, road closures, and underground service relocations (water, electricity).
- > Benefits are limited to Gertrude Street area of catchment.
- > Capacity limits may cause increased flooding along the Gheringhap Street drain.

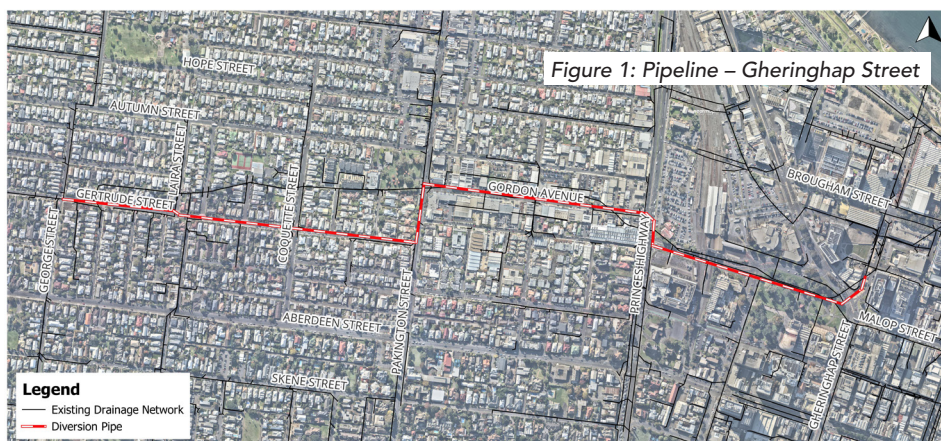


Figure 1: Pipeline – Gheringhap Street

WHAT DOES FLOOD RISK LOOK LIKE IF THIS PROJECT IS BUILT?

The two diagrams showing the modelling results:

Green = Decreased flooding

Before and after the project (flooding – 20 per cent AEP).



Figure 2: 20 per cent annual exceedance probability (AEP) modelling results.

Before and after the project (flooding – 1 per cent AEP).

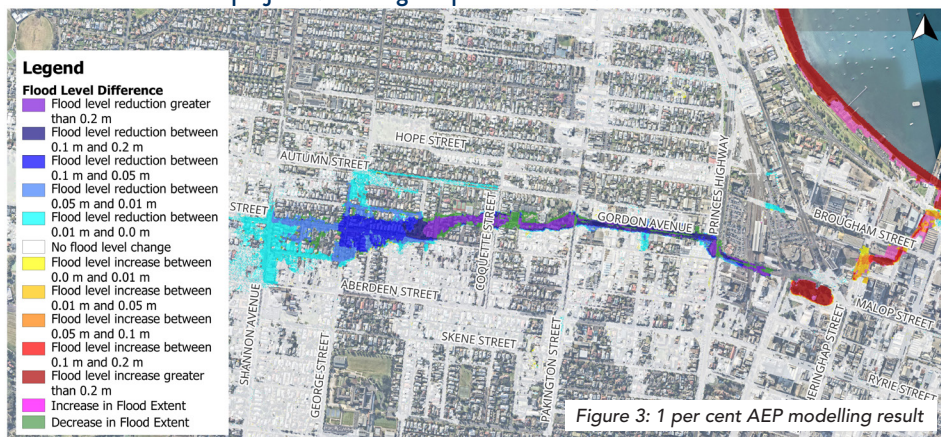


Figure 3: 1 per cent AEP modelling result

INDICATIVE PROJECT COST	IMPLEMENTATION TIME	CAN THIS OPTION BE STAGED
High.	Long-term – more than 10 years.	No - the full project would need to be completed at one-time.