

2. Pipeline – Autumn Street with underground storage

WHAT IS THE PROJECT?

This project would involve building a large underground pipe (1 to 1.2 metres wide), as shown by the red line below, to collect stormwater from the north-west part of the catchment. The pipe would run along Autumn Street and help divert water away from areas that are reported to routinely flood. To make this option more effective, an underground storage tank would also be built at or near the Geelong West Community Garden. This tank would temporarily hold stormwater during heavy rain.

HOW WOULD THIS HELP?

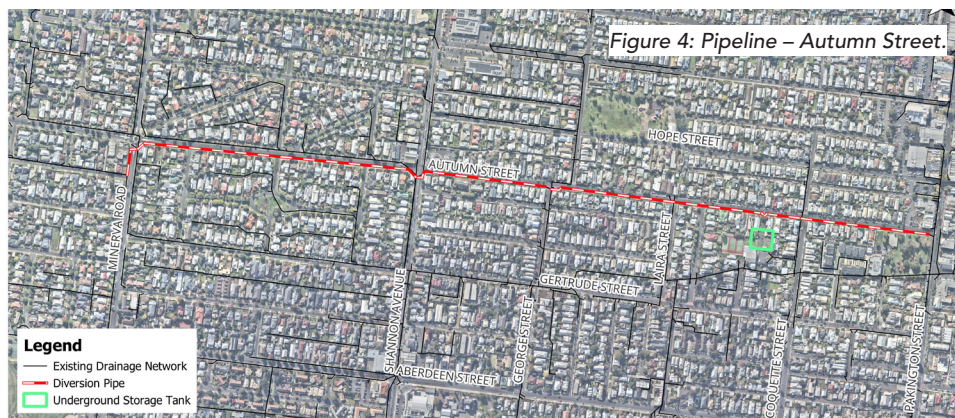
- > **Before the project:** The study suggests approximately 92 properties are likely to remain at risk of flooding in an intense rain (1 per cent AEP).
- > **After the project:** The study suggests approximately 78 properties are likely to remain at risk of flooding in an intense rain event (1 per cent AEP).

Results are based on computer modelling of the catchment area.

While this project does not protect a lot of properties, it is important to note that by capturing and storing stormwater earlier in the drainage system, this project helps lower flood risk in key areas, especially between Minerva Road and Gordon Avenue.

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).
- > It requires a large space for the underground storage system.
- > Benefits are limited to Gertrude Street area of catchment.

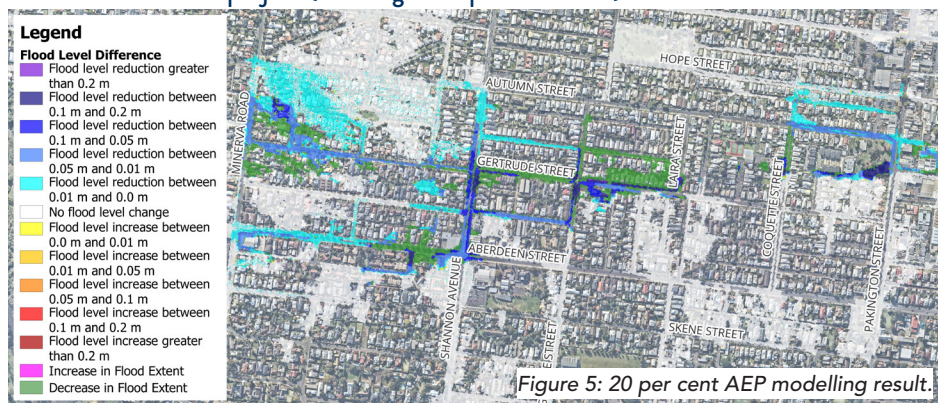


WHAT DOES FLOOD RISK LOOK LIKE IF THIS PROJECT IS BUILT?

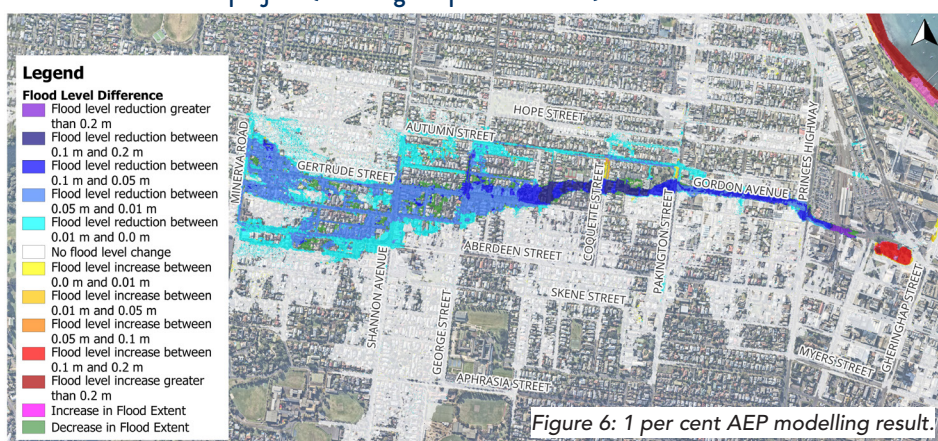
The two diagrams showing the modelling results:

Green = Decreased flooding

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



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



INDICATIVE PROJECT COST

High.

IMPLEMENTATION TIME

Long-term – more than 10 years.

CAN THIS OPTION BE STAGED

No - the full project would need to be completed at one-time.