Evolution of Wairau

Flooding and Water Quality

Nick Vigar, Head of Network Planning, Healthy Waters



What I'll be covering

Flooding

Recovery

Recovery process - what has been done

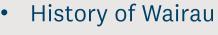
since 2023

Looking **Ahead**

Planning for the future

Quality

- contaminants
- Stormwater treatment



Causes of flooding and what happened on Anniversary weekend 2023

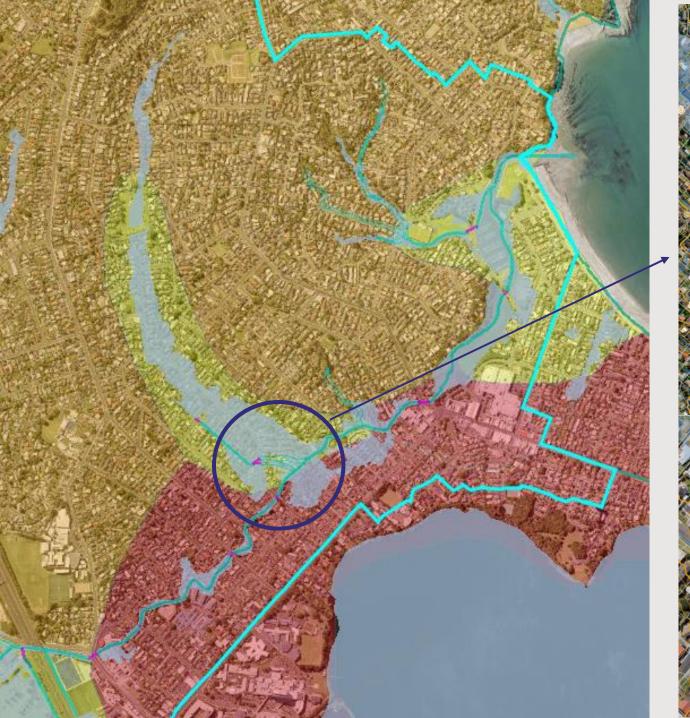


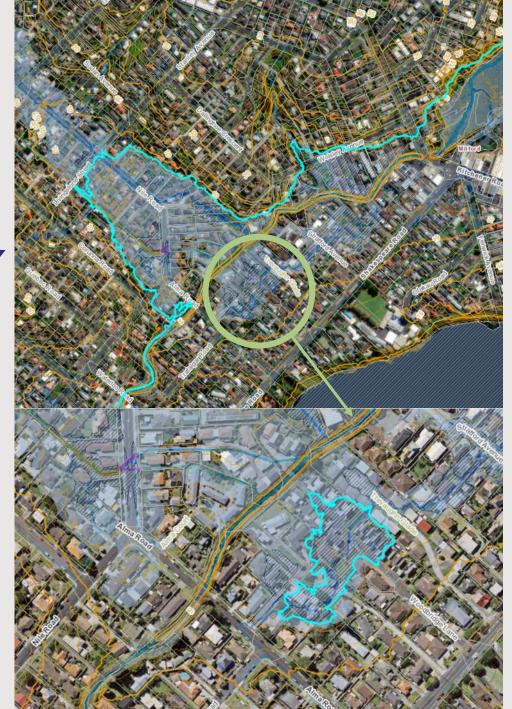
Causes of Flooding - Geological







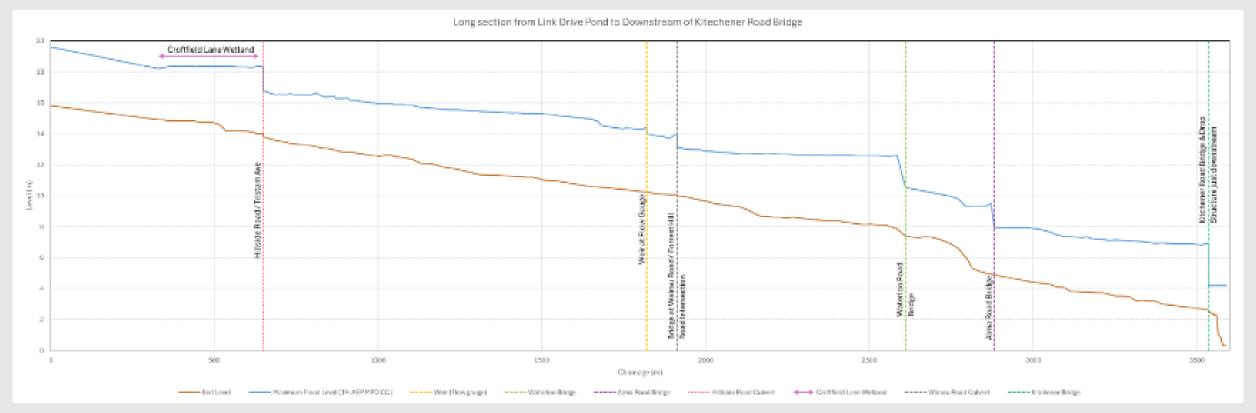


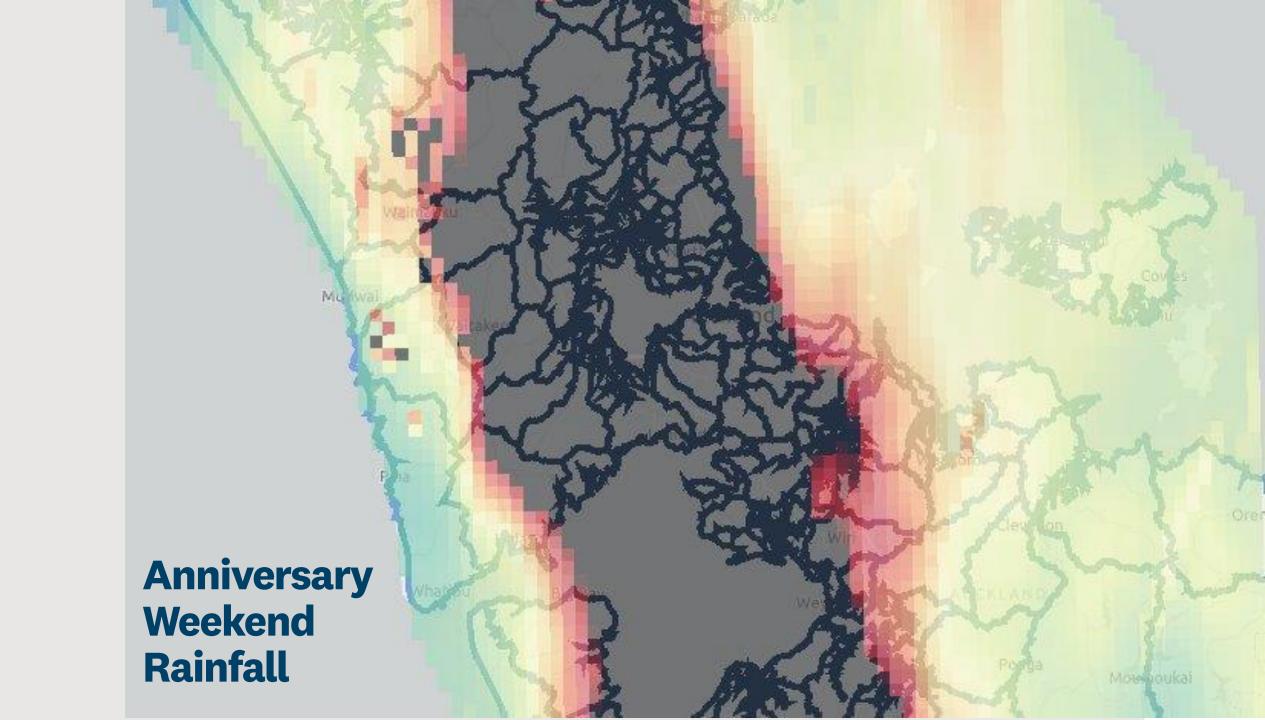












Effects felt across the whole region

7,000 properties affected by flooding

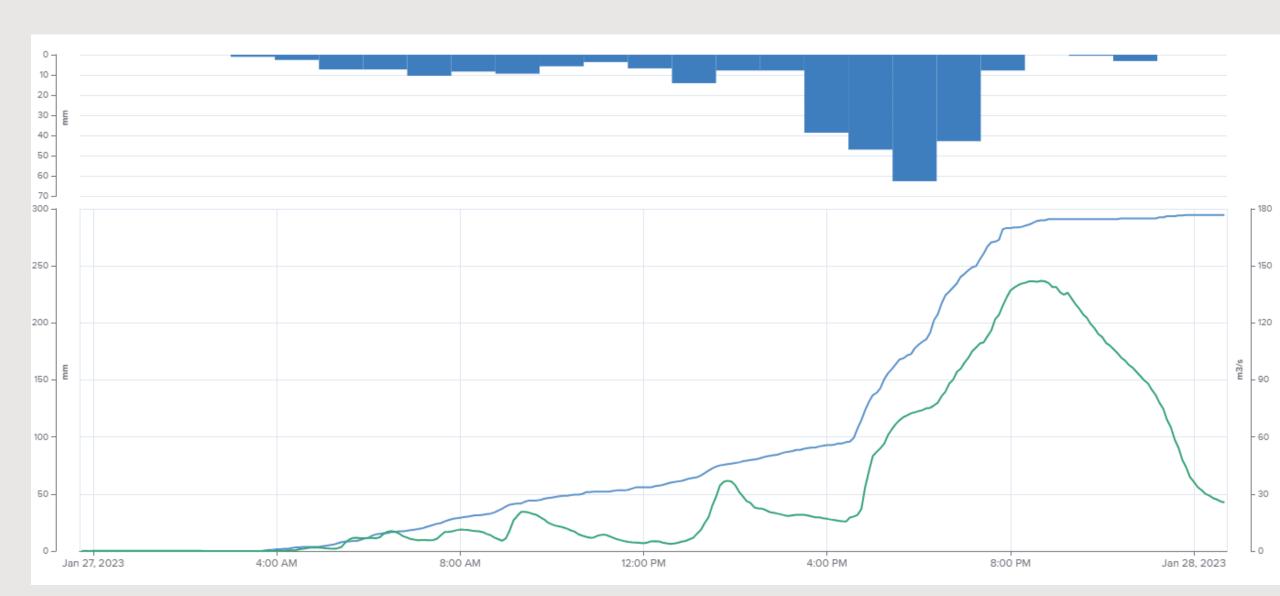
4,500 households needed assistance

600
people needing accommodation

4 fatalities



Anniversary Weekend Rainfall



Stufff

NZ NEWS / QUIZZES / TFN / LIFE & STYLE / SPORT

Auckland floods: Second man found dead in Wairau Valley

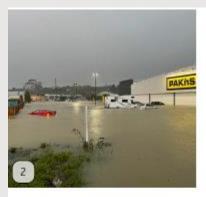
Auckland reporter

January 28, 2023 -11:25am

→ Share





















What's been done - Recovery Process

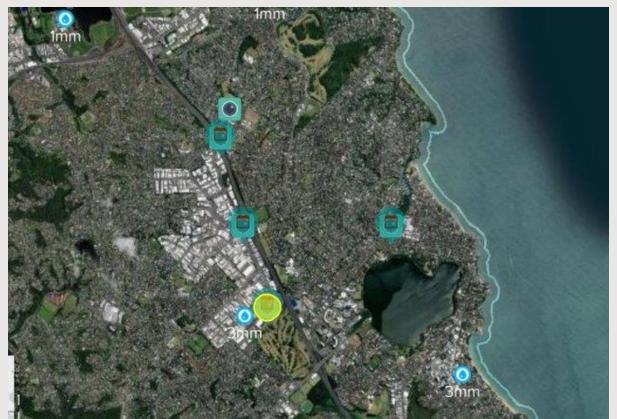




- Tāmaki Makaurau Recovery Office established and Recovery Plan developed
- 37 Navigators on the ground supporting impacted whānau
- Making Space for Water programme established and underway incl. flood resilience community outreach
- 1200 homes expected to be Category 3 exceeding the initial estimate of 900.



Stormwater network improvements





- More monitoring cameras installed
- Increased catch-pit cleaning
- New water quality treatment device installed
- Plans to dredge watercourse at Bryan Byrnes Reserve, desilting of Link Drive pond
- Other increased maintenance expected from early 2025



Wairau Catchment

18km of waterways in 1,300ha

52,000 people call Wairau home

*124
Category 3
properties

1 of 12

potential
areas for
blue-green
networks



Progress on categorisation

Total number registered in the Auckland region – 3529

Suburb	Total registrations	Categories confirmed	Cat 1	Cat 2P	Cat 3
Milford	216	139	36	2	101
Forrest Hill	22	14	8		6
Totara Vale	21	18	6		12
Sunnynook	19	8	3		5
Hillcrest	18	13	10	3	
Wairau Valley	12	1	1		

Auckland region = 78% categories completed





Campbells Bay Beach Totara Vale Castor Bay Beach Milford Beach Nile Road Wairau Road Lake Pupuke A F Thomas Park - Wairau catchment Indicative flooding extent Potential ponding area

Catchment Flood extents





Potential Catchment Interventions

What we have been working on:

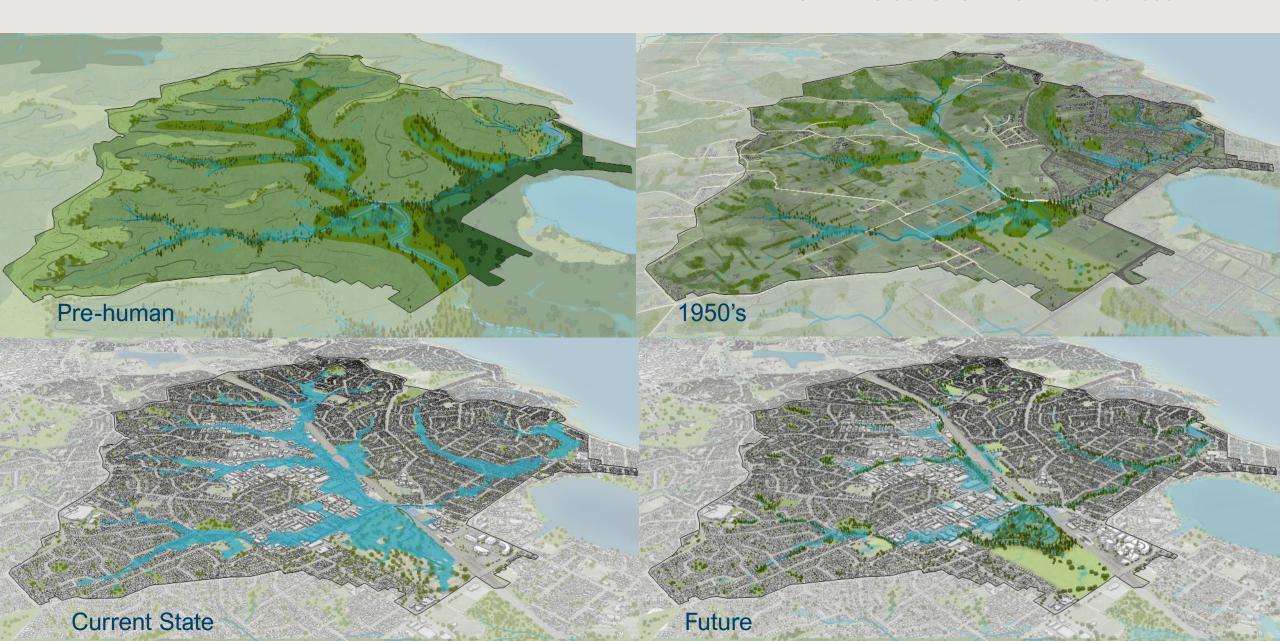
- Flood modelling and optioneering
- Project feasibility, phasing and prioritisation

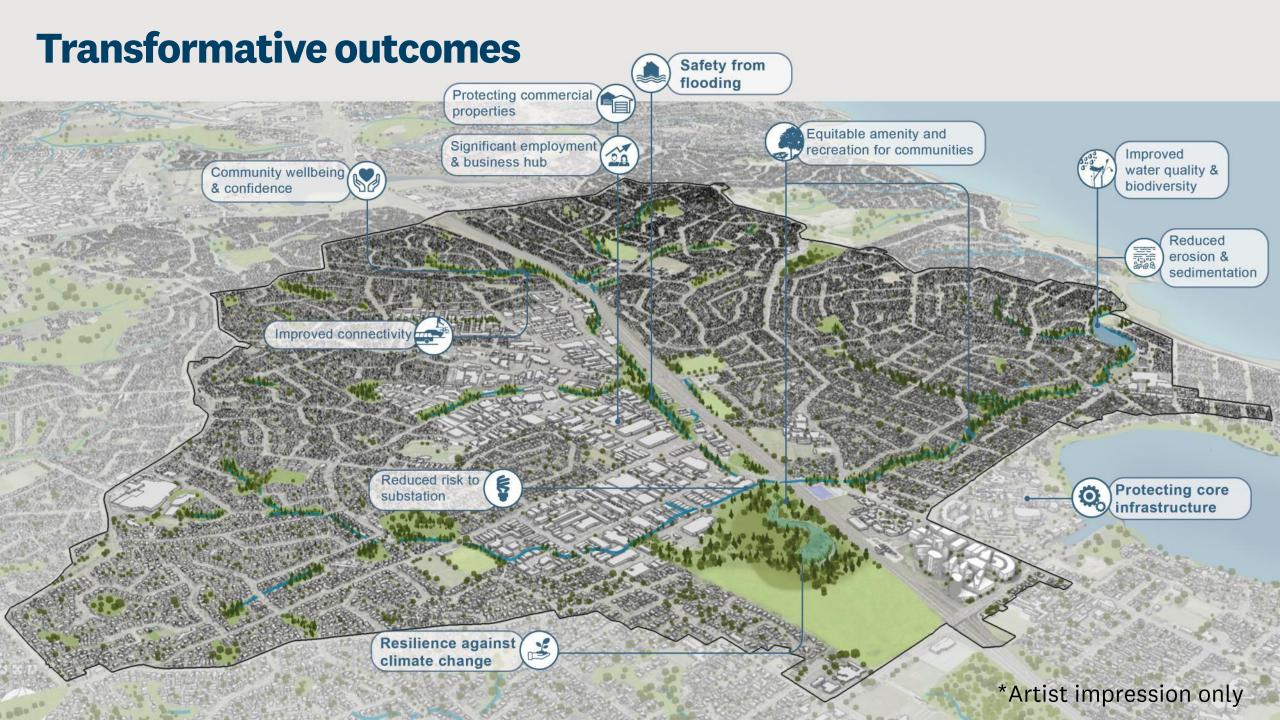
Moving forward:

 Project design to be undertaken in future in collaboration with local community

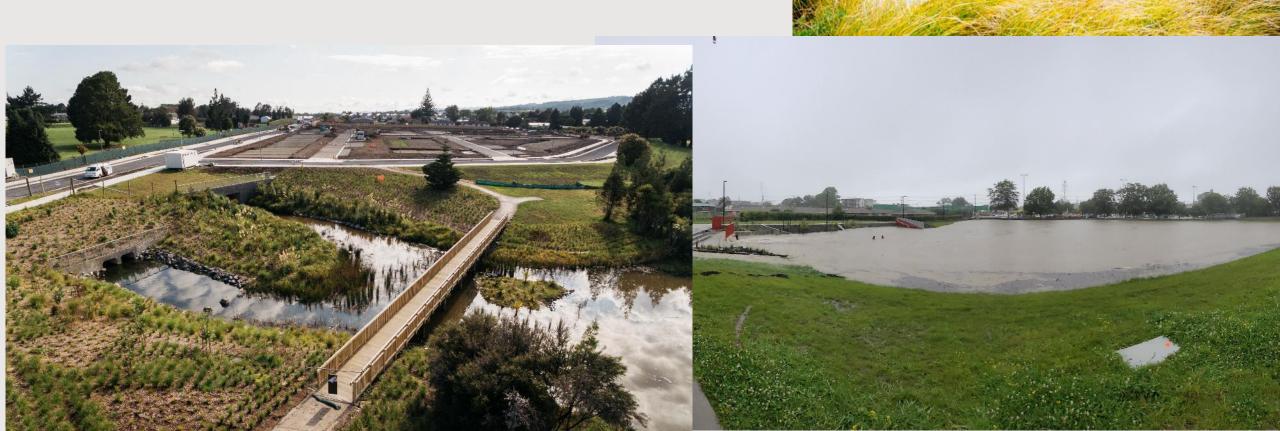


The Evolution of Wairau





Te mahi tahi me te taiao—working with nature



Next steps - Wairau Blue Green Network



Early 2025

Commence community engagement and design development



Late 2025

cases

Complete whole of catchment strategy
Submit priority project business



2027 onwards

Staged construction could begin

Final property categorisation and purchasing complete

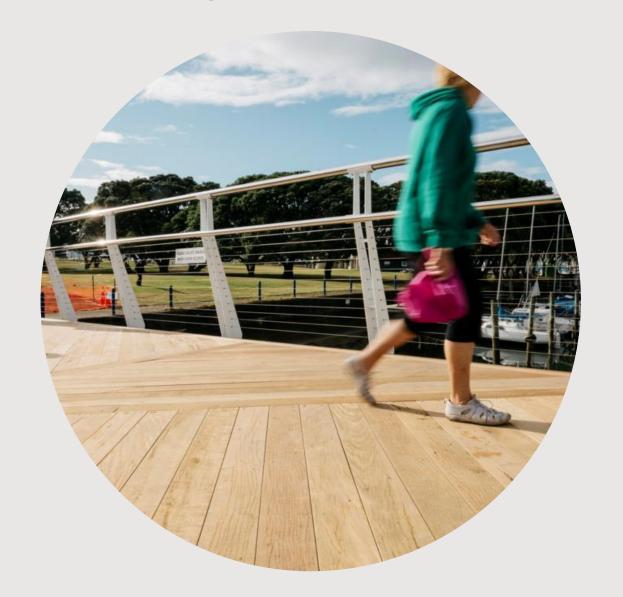


Develop design and apply for consent of priority projects





How to get involved



- Let us know what a thriving Wairau would require and look like (post-its on posters)
- Sign up to stay in touch: bluegreen@aucklandcouncil.govt.nz
- Reach out to a navigator if you have specific questions about your property
- Get involved in future community events and feedback opportunities



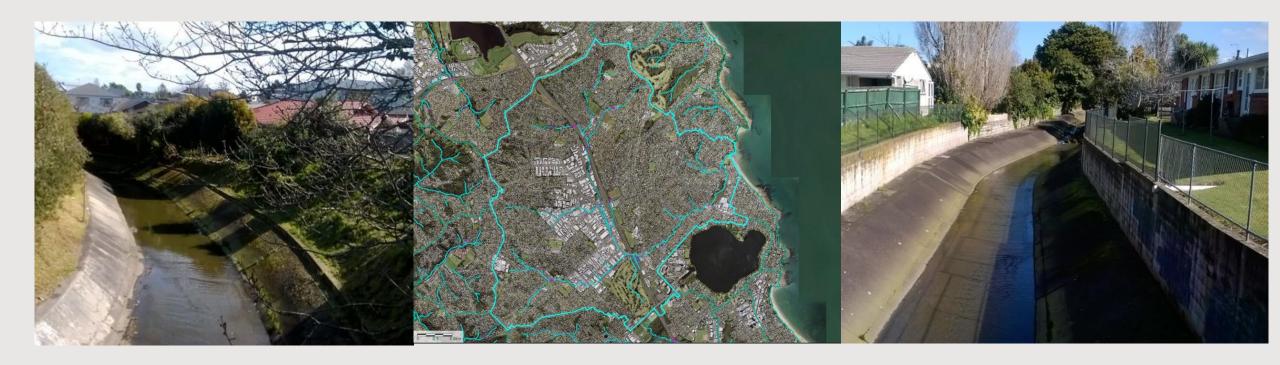




Wairau Estuary



Wairau Catchment - Urban Contaminants



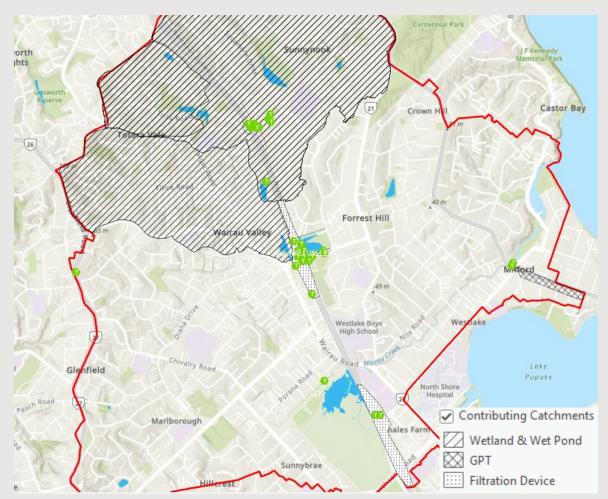
- •↑ **zinc** from vehicles (tyre wear) and roofs (galvanized steel)
- ↑ **copper** from vehicles (brake pads)
- •↑ other metals: lead (historic), cadmium (trace)
- •↑ hydrocarbons, PAHs (vehicles)

TSS (Fine sediment)	Copper	Zinc
1,041 ton/yr	29kg/yr	189 kg/yr



Stormwater Treatment Devices

- 33 additional stormwater treatment devices (AC, NZTA)
- Ranging from debris screens, gross pollutant traps (GPTs) to cartridge devices
- Regular inspection & maintenance









December 2024

