



ORDINARY MEETING OF COUNCIL

Open Minutes Attachments

Meeting Date:	Wednesday 22 June 2022
Time:	9.00am - 10.50am Trade Waste & Wastewater Bylaw Review and Water Supply Bylaw Review
Venue:	Ocean Suite East Pier 50 Nelson Quay Napier

TABLE OF CONTENTS

Item 1	Trade Waste and Wastewater Bylaw Review
Attachment 1	Hawke's Bay District Health Board tradewaste presentation (Doc Id 1474507).....2
Attachment 2	Water Metering (Doc Id 1474506)15
Attachment 3	Silver Lake Trust Water Bylaw Review presentation (Doc Id 1474509).....25

NCC Tradewaste Bylaw Submission

Key points

- HBDHB **supports** the introduction of an integrated Trade Waste and Wastewater Bylaw and the draft Administration Manual.
- DHB supports the intention to extend trade waste requirements to smaller premises generating fats and other contaminants that create downstream health and network management issues.
- Supportive of Clause A.13 “Protecting the Public Wastewater System” which aims to prevent any Stormwater, groundwater or Trade Waste entering the Public Wastewater System through Infiltration or Inflow, surface water run-off or overland flow.

We recommend

- We recommend that following the adoption of this bylaw that Council allocates funding to undertake a program of works that includes physical surveys of residential and commercial properties stormwater infrastructure in order to determine and address stormwater connections to wastewater networks.
- We note that Wairoa District Council has implemented such a program in recent years whereby Council officers visit home by home to review stormwater drainage and ensure connections to wastewater infrastructure networks aren't occurring. This program of works has had significant success in identify multiple illegal connections that were contributing significant volumes of stormwater to the wastewater network. The positive effect of this work program has been to significantly reduce the occurrence of wet weather discharges of raw sewage to the Wairoa River as the wastewater network is now managing much lower flow rates enabling wastewater flow to the treatment plants to be maintained.



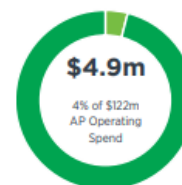
COMMUNITY OUTCOMES

Excellence in infrastructure and public services for now and in the future.

CAPITAL SPEND



OPERATING SPEND



SIGNIFICANT INITIATIVES FOR 2020/21

Stormwater studies and planning/design

- Undertake a comprehensive stormwater study before any further exploration or implementation of other stormwater-related projects in Ahuriri Estuary and Coastal areas. This will help us to understand the feasibility of projects and consider options for better managing the quality of our stormwater. This will include investigation of artificial wetlands on lagoon farm as part of the Regional Park initiative.
- Complete modelling and masterplanning of Napier's stormwater system.
- Undertake investigations to determine design to improve the pipes and drainage in the area of the Thames and Tyne waterways.

Stormwater improvements

- Make improvements to the stormwater quality entering the estuary from Bay View, the Lagoon Farm and Hawke's Bay Airport, as well as run off from rural residential areas of the western hills.

Te Awa

- Design and construct stormwater infrastructure to enable development in Te Awa.

Bylaw

- Implement Stormwater Bylaw

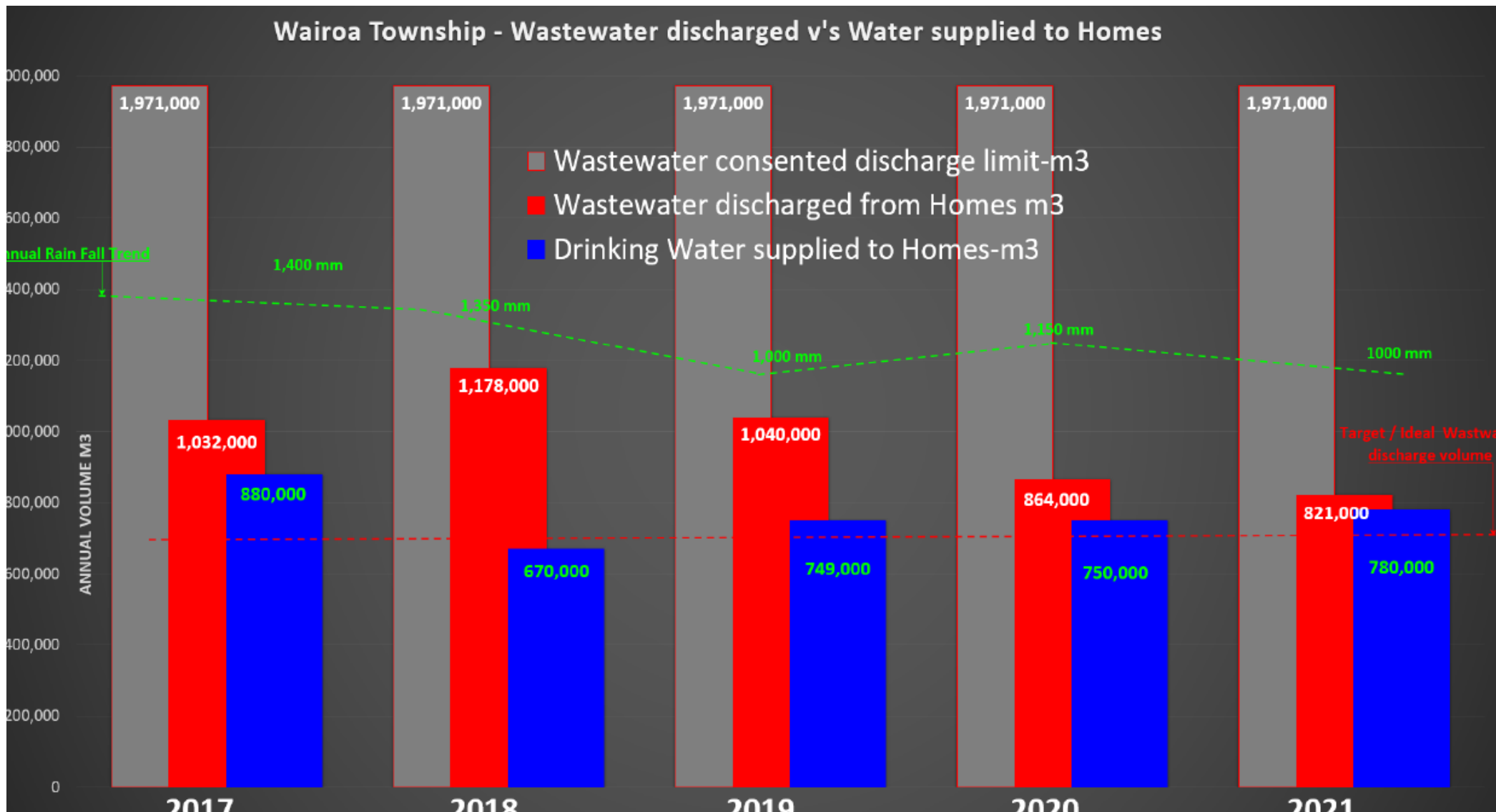
PROJECT NAME	AP 2020/21 \$000
STORMWATER	
Ahuriri Master Plan stormwater study	100
Ahuriri Master Plan Project 11 - Pandora catchment improvements	200
Ahuriri Master Plan Project 3 - improve direct outfalls	200
CBD Stormwater Upgrade	150
Minor drain Improvements	30
New pump station and pumping main for Marewa Catchment	100
New pump station in Bay View	200
Outfalls Marine Parade S852	75
Pump station minor replacements (mechanical)	20
SCADA minor replacements	25
Stormwater pump replacements	75
Stormwater pump station electrical replacements	20
Te Awa Structure Plan	1,000
Tennyson St outfall improvements	50
Thames/Tynes pipe and drain upgrades	100
Upgrade existing Onehunga Pump Station S846	68
Upgrading Dalton St pump station	300
Total Stormwater	2,713

Wairoa – Ingress and Infiltration case study

- Rain events resulted in all pump stations regularly overflowing to the river
- Sewer network took a long time to recover, up to 2 – 3 weeks after a rain event.
- In 2017 an annual total of **150 million litres** more wastewater was discharged than water that was supplied to homes, or **17% more wastewater**
- In 2018 pump stations were upgraded annual total of **509 million litres** (equates to 236,000 Litres per property) more wastewater was discharged than water supplied to homes or **76% more wastewater**

- **2019:** Smoke testing at all private properties, including schools, and businesses was undertaken, resulting in 400 illegal storm water connections to the sewer network being identified such as, down pipes into gulley traps, broken gulley traps, gulley traps at ground level, and sumps to drain flooding in lawns.
- WDC started removing them from the sewer network
- In 2019 an annual total of **291 million litres** more wastewater was discharged than water supplied to homes, or **39% more wastewater** – refer graph below.

- **2020:** All properties including 130 private properties who had direct illegal storm water connections were removed from the sewer network.
- In 2020 an annual total of **114 million litres** more wastewater was discharged than water supplied to homes, or **15% more wastewater**
- **2021:** More monitoring of Infiltration and inflow. On-going re-checking (policing) to see if any properties have illegally reconnected to the sewer.
- In 2021 an annual total of **41 million litres** (equates to 18,000 Litres per property) more wastewater was discharged than water supplied to homes, or 5% more wastewater



Item 1 Attachment 1

Why wastewater discharges matter?

