

## Infrastructure Acceleration Fund (IAF) Briefing Slides

Water Infrastructure for Growth 8 May 2024

🔺 Pukeariki / Belmont Trig



### Purpose

 To provide an opportunity to present the stormwater and wastewater options prior to Infrastructure and Regulatory Committee meeting on 9<sup>th</sup> May 2024.



## **Background to the Project**

- March 2021 NZ Govt. announced the Infrastructure Acceleration Fund (IAF)
- IAF focus:
  - 1. Unlock housing developments in the short to medium term
  - 2. Enable meaningful contribution to housing outcomes in areas of need
- In 2021, Wellington Water looked at growth impacts on 3W infrastructure in central Lower Hutt and identified issues with Stormwater and Wastewater across the valley floor
- In October 2022, projects received partial IAF funding of \$98.9M with HCC expected to fund the remainder. The total IAF project budget as part of funding bid was \$174M.
- This scope includes Stormwater and Wastewater projects only. Eastern Hill Reservoir project is delivered via Wellington Water.

IAF Scope includes:

- 1. Stormwater Improvements (IAF co-funded)
- 2. Wastewater Improvements (IAF co-funded)
- 3. Eastern Hills Reservoir (HCC funding)





## **Project Objectives**

- Support and facilitate the delivery of 3520 new dwellings within valley floor by 2035
- •Predominantly medium density townhouses and high density apartments
- •Walking distance from ECE, Primary, intermediate, secondary and WIT
- •Proximate to Employment opportunities, Queensgate, Waiwhetu Marae, Te Mangangu marae, Sikh Template and Hutt Rec ground
- •Taranaki Whānui and Ngati Toa Rangatira support required
- •Development sites will be proximate to rapid transit, within 1km of Melling City Link bridge and relocated Melling station and most within 250m of a bus stop
- •These objectives align with the development outcomes as part of Co-ordinated Urban Renewals Programme



#### A snapshot of Lower Hutt Housing





## What are the projects trying to solve?

#### Wastewater:

 Proposed infrastructure will support growth in the RiverLink redevelopment area and surrounding catchment





# What are the projects trying to solve?

#### Stormwater:

- Opahu stream is a key constraint and the cause of much flooding in Melling, Woburn, Waterloo West and some of Boulcott
- Opahu Stream is currently at capacity already and cannot support additional development
- Urban environment means capacity cannot be increased/upgraded easily
- This investment will provide capacity, improve resilience and support growth





#### Stormwater and Wastewater Project Stage 1 Timeline



ECI - Contract Documentation & Draft PR



### Long List of Options-Stormwater





### **Shortlisted Options-Stormwater**



**Shortlisted Options** 

Flood modelling



# Multi Criteria Analysis to select preferred stormwater option

- Hydrogeology.
- Sustainability.
- Cultural impacts.
- Planning & consenting complexity.
- Property
- Ecology

- Effects on community.
- Constructability.
- Operation of infrastructure.
- Risk and resilience.
- Enablement of housing development.
- Cost.



## Preferred Option (Option 1b) – Stormwater



- Area of improved trunk capacity
- Alignment on Pretoria Street
- Interface with RiverLink Works
- Private Property Impact



## **Stormwater Pump Station**

- Project purpose is to remove water from Opahu Stream therefore pump station location near Opahu Stream
- Rising main pipe to river under road therefore pump station has to be close to where road crosses stream
- Looked at areas of available land close to Opahu Stream and road crossings. Two options investigated:
  - Options within Road reserve
  - o If no option in road reserve, then options in adjacent properties
- Road reserve does not have enough space for pump station. It is too congested with services plus unworkable for operations and maintenance access.
- Therefore, the preferred option pump station will likely impact private property.



## **Wastewater Preferred Option**

- Reviewed previous concept design, preferred option endorsed by Wellington Water
- Provide increased capacity in Hutt central, allowing for population and development growth
- Cost Savings option explored-Brought proposed storage tank above ground to reduce risk and cost
- Aligning rising main to cross on new Melling Bridge, connecting to Western Hills Sewer main





## **Next Steps**

- Seek options endorsement from Investment and Revenue
  Committee
- Completion of Stage 1 by June 2024
  - Complete Concept Design
  - Complete Cost estimates
  - Completing consenting strategy
  - Complete Property Strategy
  - Plan for Stage 2
- Seek Council approval of Stage 1 in July 2024
- Seek Kainga Ora approval of Stage 1 in August/September 2024



## **Questions?**



07/03/2024