

**Comprehensive Stormwater Discharge Consent Renewals** 

# Stormwater Management in the Waikato — An Unexpected Journey

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### Agenda

Background

Project Overview

Our Approach

**GIS Tools** 

Ongoing Stormwater Management

Iwi Consultation

Stormwater Network Management Plan

Summary





### Background

Comprehensive Stormwater Discharge Consents

Operating for past 20+ years

Similar timing of consent renewals across the Waikato Region





### **Project Overview**

Collaboration between Morphum Environmental, Te Miro Water, and EnviroPlanning with Waikato Regional Council and numerous District Councils in the Waikato Region.

Focus on updating comprehensive urban stormwater discharge consents that have been operational for over 20 years.

Rare opportunity to use this window to significantly change the approach to stormwater discharge consents across the Waikato region.

Renewal effort prompted by regulatory changes, including the NPS-FM 2020.





### **Project Overview**

#### **Issues Identified**

- Limited time & budget available
- Lots of technical assessments and reports required to address application requirements
- Inconsistencies between neighbouring Councils in their approach to stormwater management
- Huge workload put on small number of Council staff to keep up with compliance requirements
- Limited iwi engagement in previous applications





### Our Approach

Changes proposed from previous discharge consents:

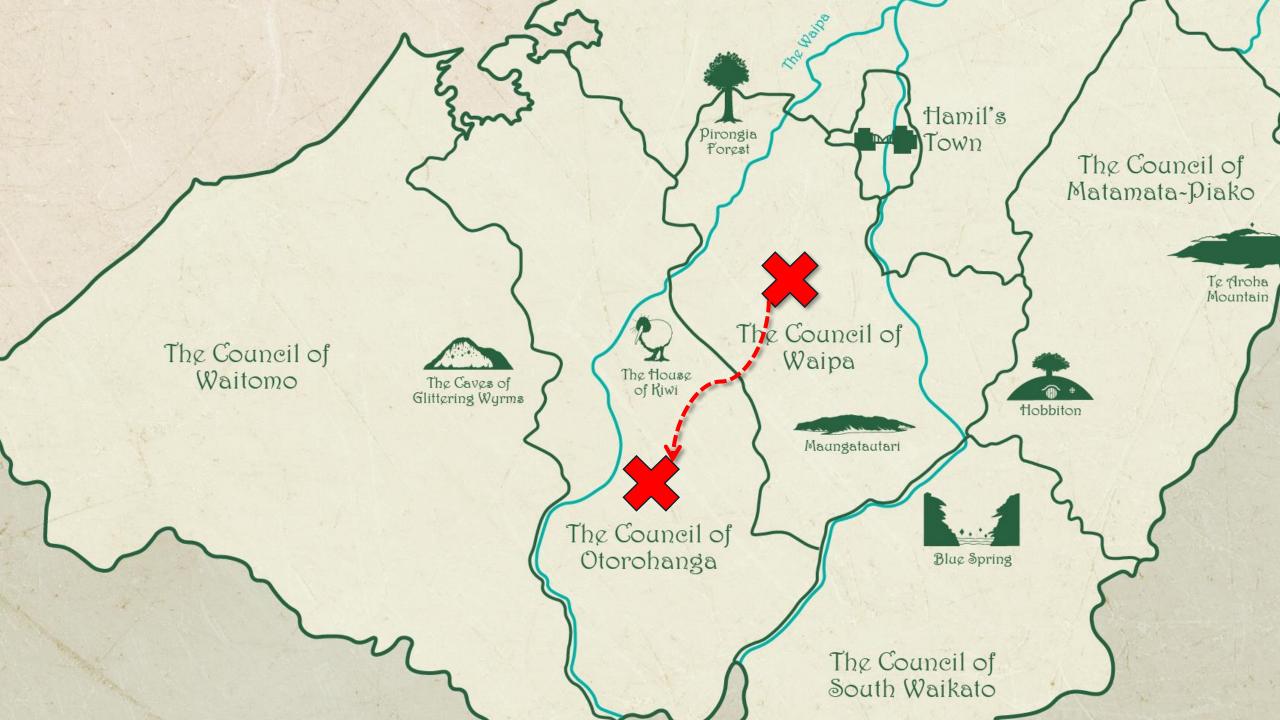
- **GIS tools** to reduce reporting requirements, ensure easily accessible detailed data, and provide easy to interpret stormwater management solutions.
- A focus on the implementation and management of existing and future stormwater services.
- Stronger focus on **iwi engagement** during the consenting process.
- Development of a stormwater network
   management plan to assist Council in the
   ongoing communication and management of their
   network.

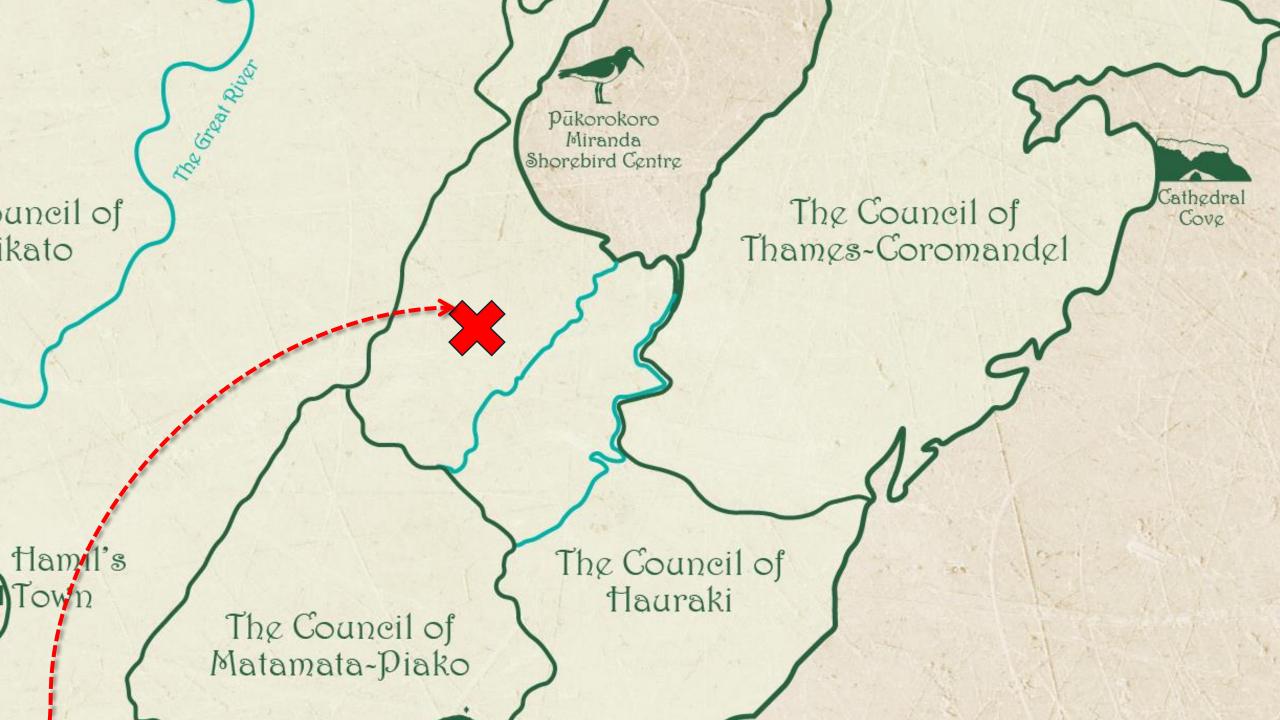


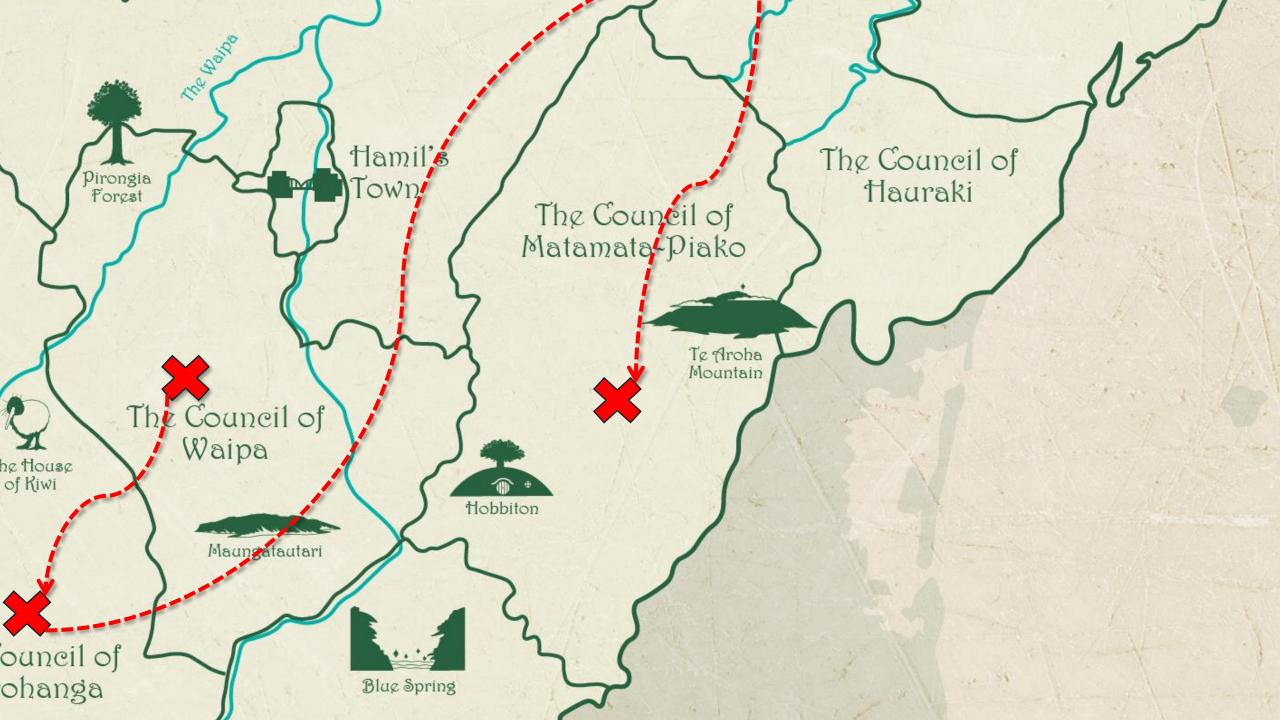


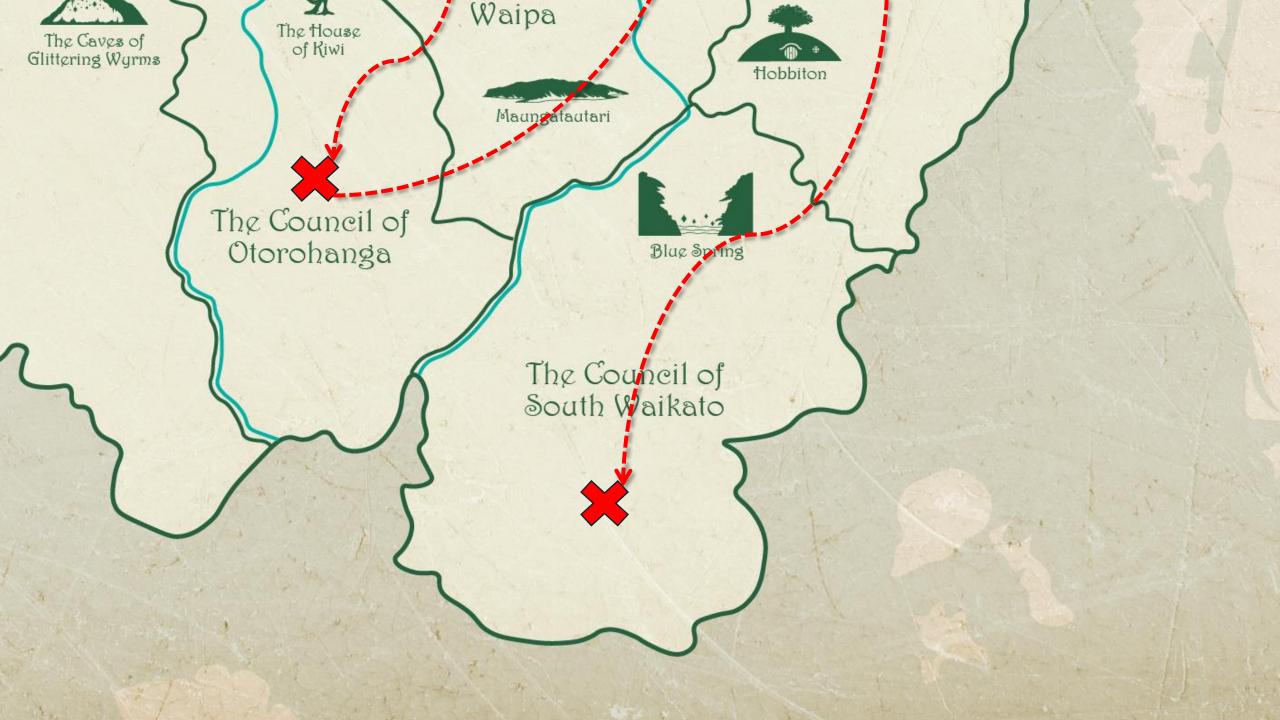










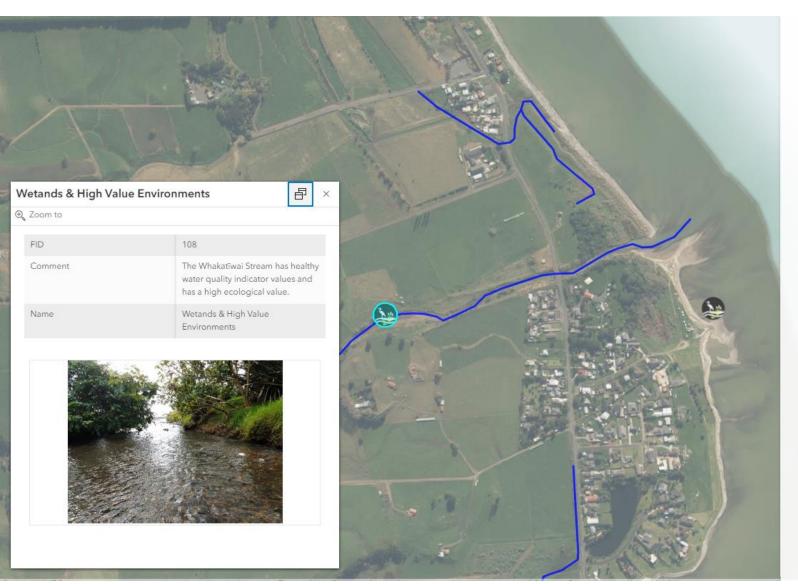












#### **Identified Effects**

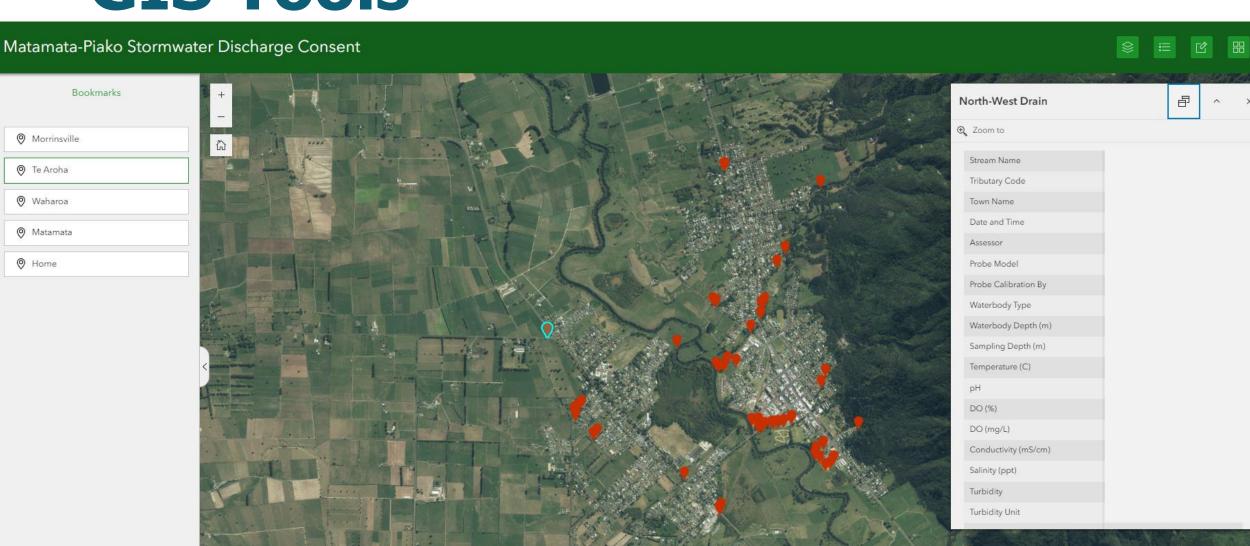
Key Areas or Issues

- It is noted that 
   <u>council land</u> is present through parks and coastal areas.
- The community have indicated that they would like a
   stopbank upgrade.
- There is an ⊕ artificial pond maintained by residents

#### Specific Effects

- <u>Wetlands and High Value Environments</u>- The river and the coast are high value environments.
- <u>Level of Service</u>- There is evidence that these stopbanks may be eroded, and the level of service is unknown.
- Flooding- Much of the coastal plain, is at or below mean sea level. Sea level rise will restrict the capacity of the coastal river systems and therefore is projected to increase the frequency of overbank river flooding events, particularly on low-lying coastal plains

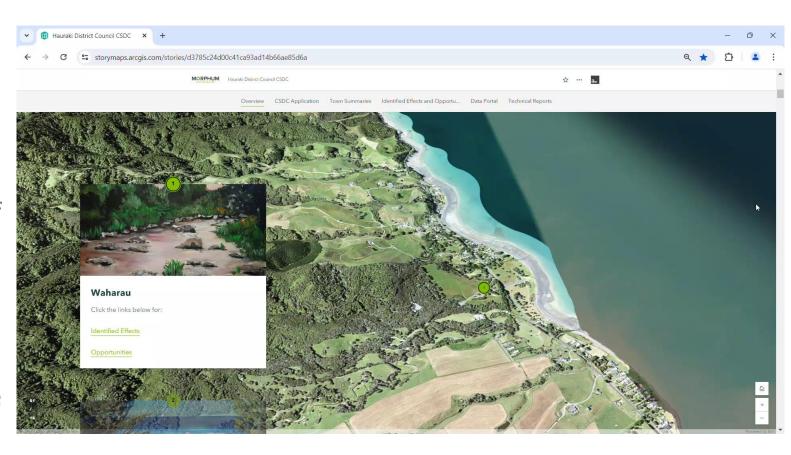
Further details can be found here



#### What worked well?

- Excellent tools for storytelling and consolidating large quantities of data
- Once built, the tools can be easily adapted to suit each Council
- Significant reduction in the amount of report writing required
- Very beneficial having a single source of truth for all the project data

- Can be time consuming to build some elements
- Councils all have different GIS capabilities and systems
- Variance in end users being familiar and comfortable with GIS







- Significant time and costs invested
- Important to address regulatory requirements
- Critical to ensure it continues into the future

HOW DO WE KEEP IT ALIVE?





- Engaged with Waikato Regional Council early and regularly
- Worked with Council(s) and stakeholders to seek and improve based on feedback
- Shared ideas across the Districts i.e. monitoring applications





#### Hauraki District Council Stormwater Management









Stormwater and Receiving Environment Monitoring Plan



Final Report



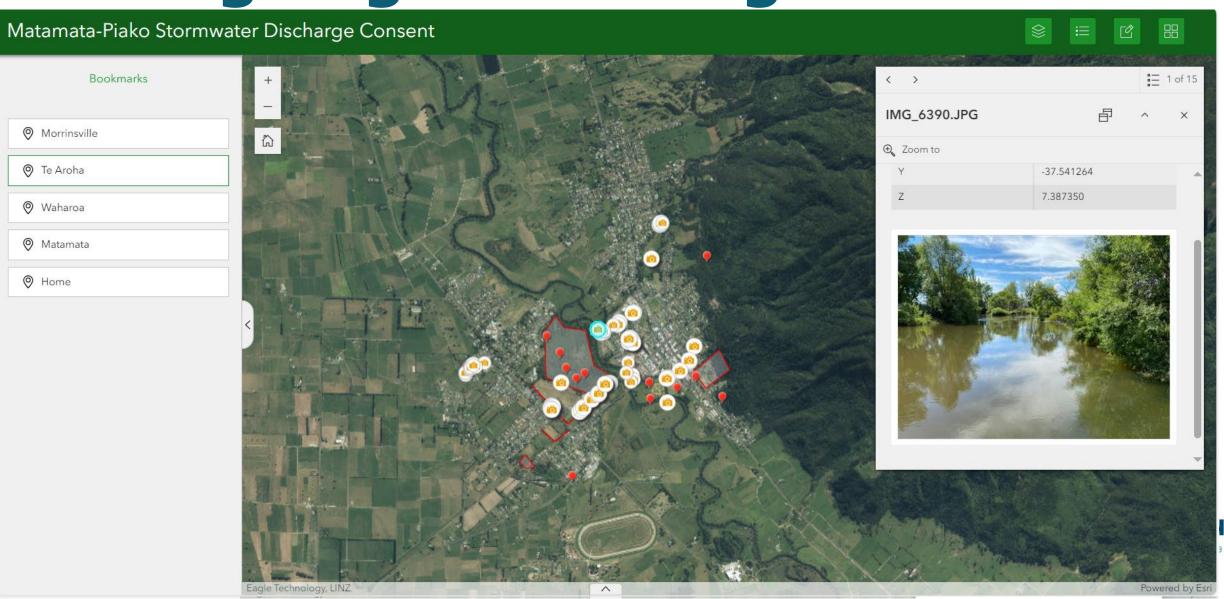
GIS Data Portal



Participatory Mapping



Water Quality Monitoring



#### What worked well?

- Good engagement with stakeholders early
- High energy in seeing what can be done
- Great sharing of ideas and feedback
- Important to keep developing

- Lower use of some tools later in the project when engagement reduces
- Emails with numerous links





## Iwi Engagement

#### What worked well?

- Terms of engagement payment
- kanohi ki te kanohi (face-to-face) communication / hui
- Early and continued engagement

- Competing priorities for mana whenua i.e. treaty settlements taking precedence
- "Rushing" need to manage RMA timeframes with meaningful engagement





#### **Stormwater Network Management Plan**

#### What worked well?

- Engagement with wider Council teams i.e. parks, roading, planning, building consents
- Workshops

- Getting collective by-in often difficult
- Assuming someone else is responsible internally





### Summary

- Rare opportunity to overhaul the approach to stormwater discharge consents in the Waikato region.
- Acknowledged the limited value and infrequent use of 20-year-old consent applications.
- Substantial technical assessments, time, and costs involved in meeting CSDC regulatory requirements.
- Increased focus on iwi engagement, incorporating cultural values and indigenous storytelling alongside scientific insights.
- Prioritised leveraging data, processes, and outputs from the CSDC application process for ongoing use by District Councils.
- Aimed to enhance understanding and management of stormwater networks for improved efficiency and effectiveness beyond the application phase.







# MORPHUM environmental

### Thank you! Questions? Patai?



