

# Briefing for Banks Peninsula Community Board on Akaroa Wastewater Options

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# Current Situation

- June 2017 - found that Treatment Plant meter faulty
  - Had been relied upon for design data
  - Need to establish new design flows
  - New flow meters installed in June
  - Also installed meters at each pumping station
  - Appears flows are double what was originally measured
  - Will have significant effect on scheme options
    - Particularly on land required and on the storage volume required
- Need to reconsider existing options and other options

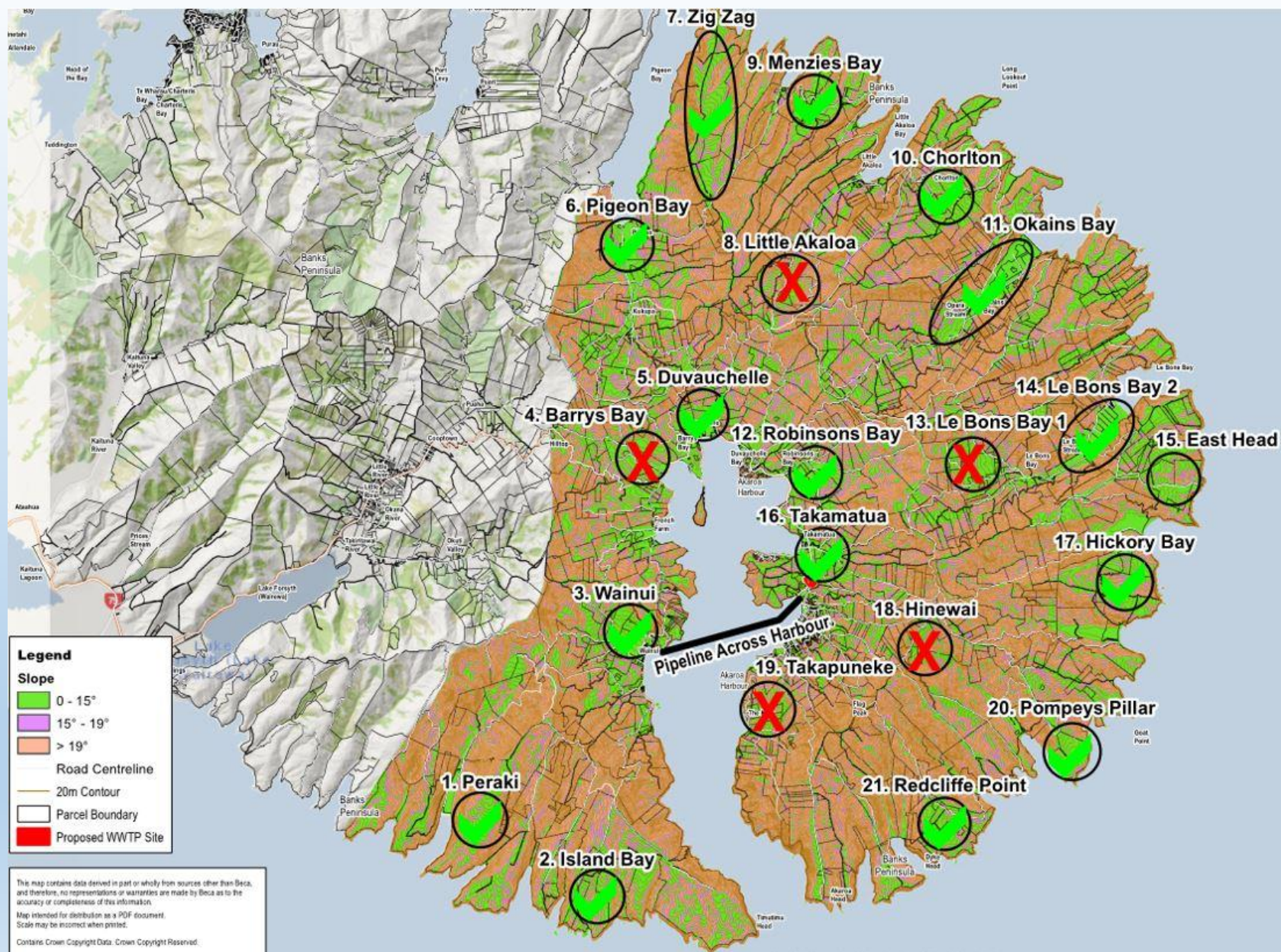
# Next Steps

- July 2017 - April 2018 Data gathering and model update
  - Need reliable flow data including seasonal variations
  - Winter and summer flow data
  - Updating flow model
  - Model and new flows to determine new design
    - Average and peak flows critical to accurate design for area and storage

# Additional Steps

- July 2017 – May 2018 Additional Investigations and Options
  - Council making a preliminary estimate
  - Extent of ground water Inflow and Infiltration
  - Identifying high water users and reduced consumption options
  - Exploring extent of non-potable reuse to reduce wastewater volume
  - Considering additional areas that may be suitable for irrigation
  - Deep well injection option
  - Preparing cost estimates for construction and operation

# Original High Level Screening of Possible Irrigation Areas

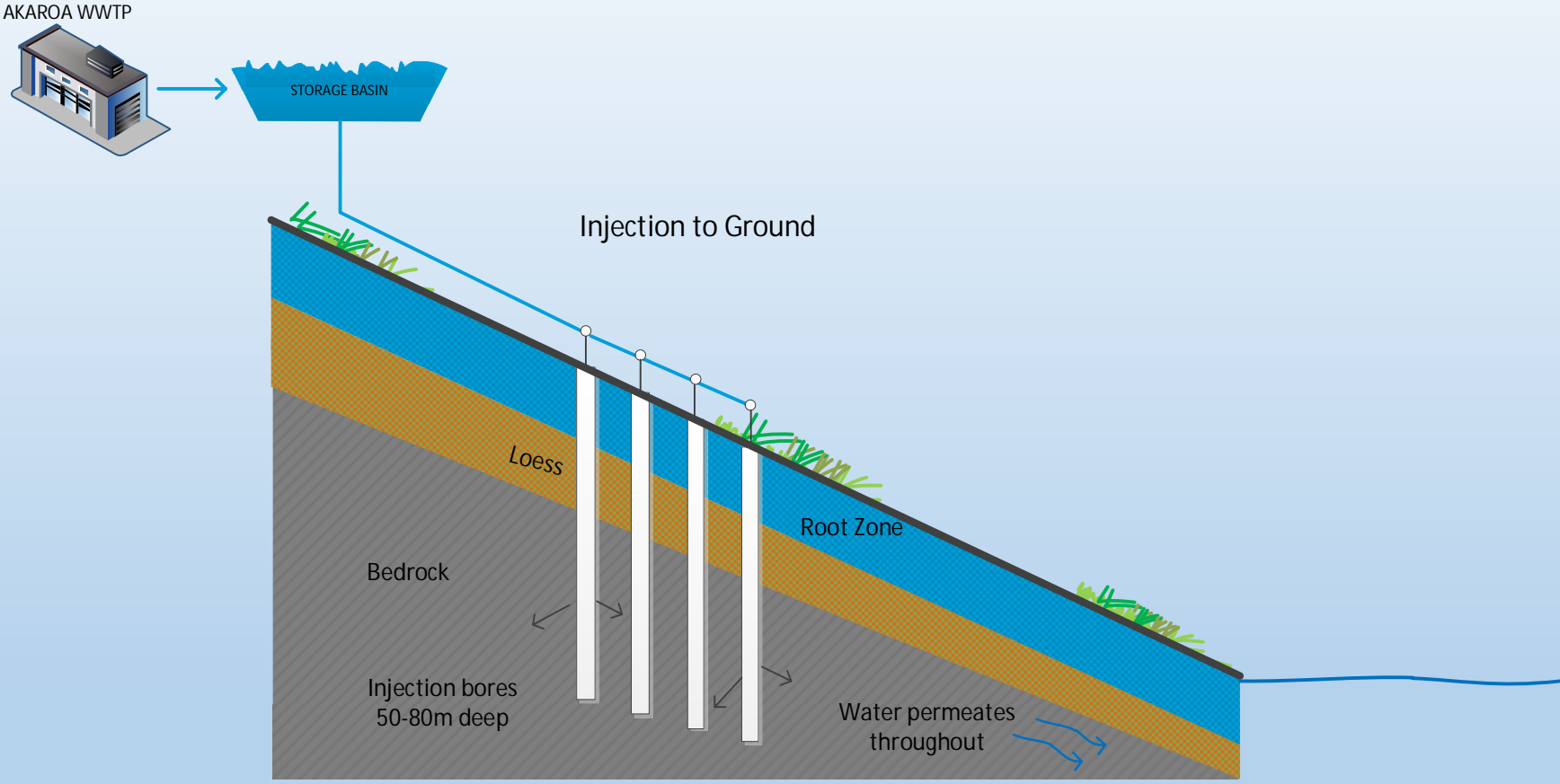




# Options now being considered

- Irrigation of areas previously considered plus
- Two additional areas at Hickory Bay and Redcliff Point
  - (north and south of Pompeys Pillar)
  - Cultural impact assessment needed for these areas
- Deep well injection
- Non-potable reuse

# Deep Well Injection



# Further Public Consultation and Environment Court Appeal

- May 2018 – December 2018
  - Further consultation of shortlisted options
    - Public information , feedback, hearings report preparation, recommendation to Council
- Environment Court Appeal
  - Council granted extension on appeal to harbour outfall
  - Progress report required 25<sup>th</sup> May 2018
  - Aim to report on chosen option by December 2018