



# Glenorchy Sewerage Scheme Update – August 2017

# What have we been working on?

- Discussions with ORC and QLDC Councillors on information/evidence to support a need for the development of a community scheme.
- Discussions with QLDC Parks and Reserves team regarding the future operation of the airfield.
- Discussions with airfield operators on the future operation of the airfield.
- Review of the airfield site and ability to co-locate an airfield and treatment facility at the site.
- Technical review of the area available at the airfield for a disposal field and treatment facility.
- Desktop assessment of Glenorchy and potential impacts from individual household OSWWD (On-site wastewater disposal) systems.
- Further review of cost estimates.

# Cost Estimates

- The relocation of the treatment facility from the peninsula to the airport has resulted in a preliminary cost increase of approximately 7%.
- Cost of \$7.01m for stage 1 of the hybrid-gravity solution.
- Preliminary estimated cost to install a OSWWD system for a new build premises is \$14,500 to \$19,500.
- Preliminary estimated cost to retrofit a OSWWD system to an existing septic tank is \$12,000 to \$17,000.
- The cost is dependent on the location of the premises and the estimated effluent loading rate that would be required to be met.
- We are still awaiting further information from several suppliers regarding the above cost estimates.

# Existing Conditions Assessment Treatment Systems

- Available information has been gathered from the QLDC rating system and from the survey undertaken by Sustainable Glenorchy.
- Properties have been allocated a risk rating based on the following:
  - Location
  - Elevation
  - Age
  - Type of System installed
- A risk rating between 4(low) and 12(high) has been allocated to each property.
- 50% of properties have been identified as having a moderate or high risk rating being 9 or higher on the risk scale.

# Existing Conditions Assessment Environment Assessment

- Available information has been gathered from a range of sources and reports regarding Glenorchy.
- Information has been sought to determine existing conditions of soil/geology, climate, existing contaminated sites, and water flow paths.
- Identified that there is a reasonable risk to the environment due to existing OSWWD systems.
- Identified that the potential nitrogen loading may not be as high as previously assumed by ORC but still significant and a risk.
- Identified areas for further field assessments which should be undertaken to review if any contamination is currently occurring.

# Next Steps

- Continue development of the AEE, Reserve Status, and Resource Consent application for the airfield site.
- Undertake field assessments of existing OSWWD systems to determine if the results align with the desktop review.
- Undertake field assessments and testing of surface and groundwater to review if there is any evidence of contamination occurring.
- Further assessment of the cost estimate for the system and review of affordability for the community.