



Glenorchy Township Sewerage Scheme

Project Status Presentation

August 2015

Council Resolution from 30 June 2015

1. Note the contents of this report and in particular:
 - a. Status quo is not an option going forward.
 - b. The final project plan and costings will need to go to the Glenorchy Community for a vote of support.
 - c. The recommendations to move this project forward to detail design, assessment of environmental effects and resource consent.

Council Resolution from 30 June 2015

2. Approve Concept Option B – Glenorchy Sewerage Scheme for the Glenorchy Township using a hybrid gravity/pressure sewer system reticulation combined with a package treatment plant and land application area located at the Peninsula Site, provided it is confirmed by re-evaluation of the Septic Tank Effluent Pump ('STEP) option.

Council Resolution from 30 June 2015

3. Authorise staff to initiate the re-designation process for the Peninsula Site.
4. Authorise staff to initiate the assessment of environmental effects and to prepare and lodge the resource consent application for the discharge of wastewater to land with the Otago Regional Council.
5. Authorise staff to undertake the detailed design as required and prepare more detailed costings for the project.

Council Resolution from 30 June 2015

6. Authorise staff to continue to consult with the Glenorchy community over the scheme costs and resident cost contributions.
7. Take the final project plan to the community for a vote of support.
8. Direct staff to report back to the Council over the outcome of the re-designation, assessment of environmental effects, resource consent application, community consultation/vote and project costings to get approval to proceed with the tender process.

Scheme Comparison

Glenorchy waste-water system ... Are you aware of the debate?

QLDC has plans to upgrade our town onto a reticulated sewer system

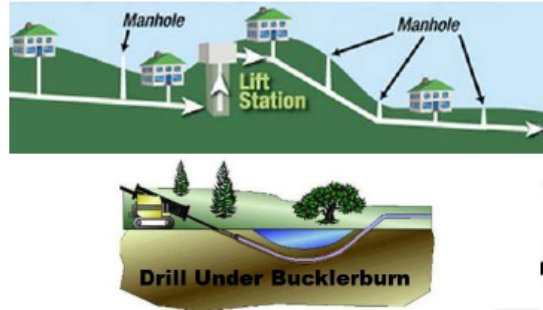
Our debate is not about whether this should or shouldn't happen, it's about the design options for the system and how much it will cost!



THIS IS WHAT THEY WANT YOU TO HAVE



All septic tanks decommissioned - new or old!



\$6 + Million



WWTP

Larger Treatment Plant - Solids and Liquids!



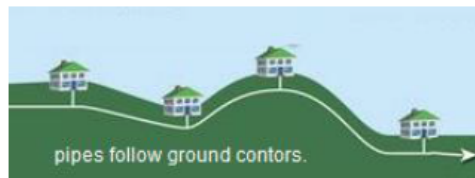
NOT MY PROBLEM...

WE THINK THIS IS MORE SUSTAINABLE ECONOMICALLY AND ENVIRONMENTALLY



Some septic tanks decommissioned (upgraded)

Smaller Pipes needed



pipes follow ground contours.



Drill Under Buckleburn



\$4.5 Million



WWTP

Smaller Treatment Plant - Only Liquids!



Both Options have advantages, but so far we are not being offered a choice on options. It's your money... shouldn't you get to choose?

We need open and informed debate

Glenorchy wastewater scheme cost comparison						
A. On Property Installation/Reticulation		STEP (Farmer)		STEP (QLDC)		Gravity Hybrid
Preliminary and General		\$ 106,000.00		\$ 210,000.00		\$ 165,000.00
			Traffic control	\$ 19,200.00		\$ 32,000.00
Property Connections and STEP Tanks		\$ 1,869,892.80		\$ 1,810,170.26	Gravity sewer	\$ 659,650.00
					Rising main	\$ 269,300.00
					Reinstatement	\$ 236,500.00
					Pressure sewer in flood zone	\$ 528,000.00
Reticulation		\$ 681,660.00		\$ 597,994.21		
			Booster pump station	\$ 150,000.00	Pump stations	\$ 320,000.00
Sub Total A		\$ 2,657,552.80		\$ 2,787,364.47		\$ 2,210,450.00
B. Treatment Plant						
			P&G	\$ 140,000.00		\$ 195,000.00
Treatment Plant - Primary Tanks		\$ 175,844.75			Treatment Plant	\$ 2,200,000.00
Treatment Plant - AdcanTex		\$ 1,196,470.58		\$ 1,500,000.00		
Sub Total B		\$ 1,372,315.33		\$ 1,640,000.00		\$ 2,395,000.00
C. Land Treatment						
			Misc.	\$ 130,000.00		\$ 130,000.00
Land Treatment System (All Stages)		\$ 110,591.87		\$ 69,000.00		\$ 78,000.00
Sub Total C		\$ 110,591.87		\$ 199,000.00		\$ 208,000.00
Reticulation			10% Design	\$ 278,736.45	14% Design, MSQA	\$ 309,463.00
Reticulation			10% Contingency	\$ 306,610.09	10% Contingency	\$ 221,045.00
Treatment Plant			Consent	\$ 50,000.00	Consent	\$ 50,000.00
Treatment Plant			10% Design, MSQA	\$ 183,900.00	10% Design, MSQA	\$ 260,300.00
Treatment Plant			10% Contingency	\$ 183,900.00	10% Contingency	\$ 260,300.00
Contingency		\$ 414,046.00				
Sub Total Contingency		\$ 414,046.00		\$ 1,003,146.54		\$ 1,101,108.00
TOTAL		\$ 4,554,506.00		\$ 5,629,511.01		\$ 5,914,558.00

Key Drivers for Final Design and Tendering Process

- Lowest operational and maintenance costs
- Ability to expand
- Infiltration to chosen system to be a minimum
- Proven system operating within NZ

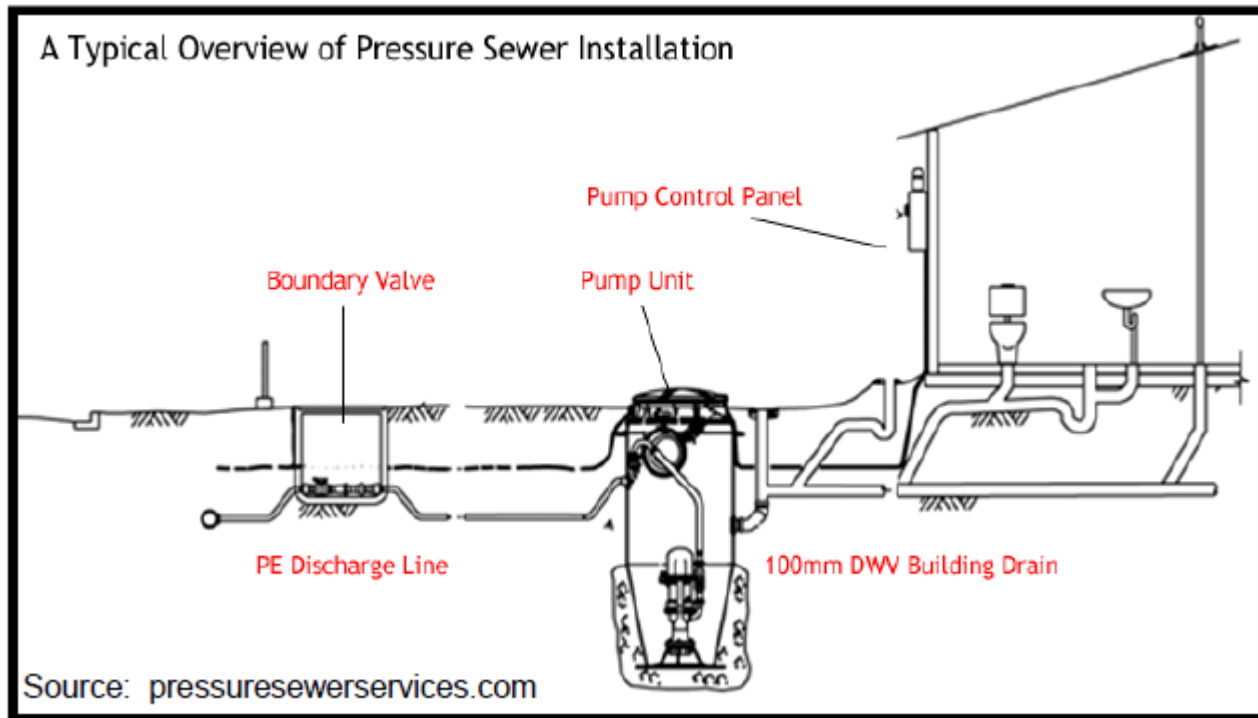
Property connection

- STEP (Septic Tank Effluent Pump)



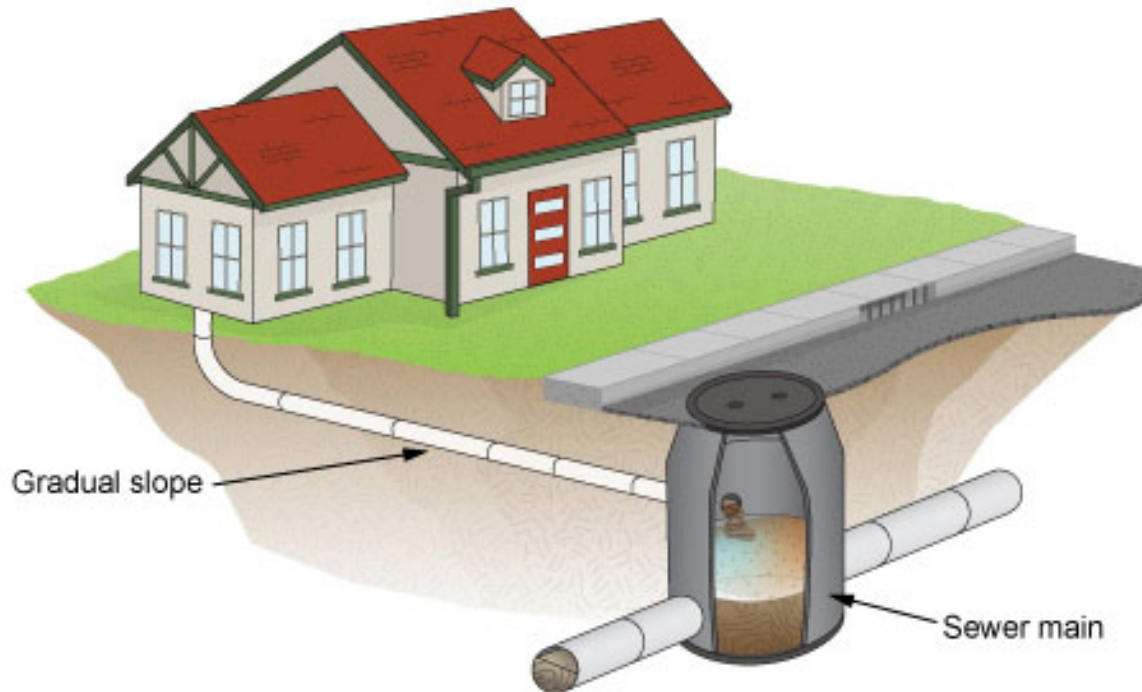
Property connection

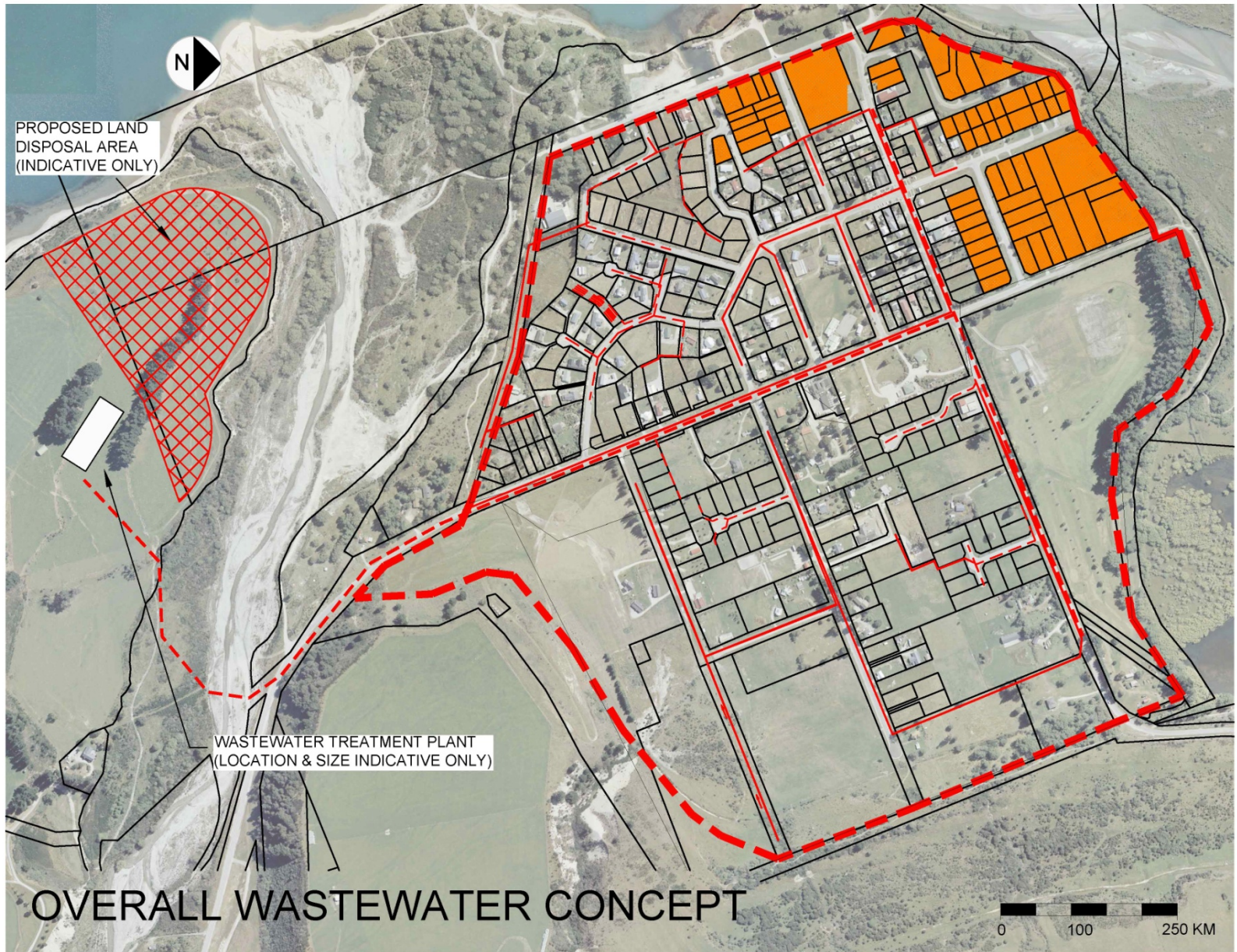
- Low Pressure Grinder Pump



Property connection

- Gravity Sewer





What's happening at the moment

- Project Manager Andrew Timms appointed
- Engaging Planner for Designation and Resource Consent
- Engage Consultant for AEE and Detail Design



Next Steps

- September: appointed Planner
- September: appointed Consultant
- October: community update



Feedback from Community

Package Plant Cardrona



Package Plant Cardrona



Disposal Field

