#### South-West Wastewater Servicing Project

## Best practicable option... what does that mean and how do we identify it?

In simple terms, the best practicable option (BPO) for the South-West Wastewater Servicing Project means the 'best option'. This would be the wastewater treatment and disposal method that balances a number of objectives, is affordable and protects our communities while also preventing harm to the environment and cultural values.

The process we use to identify the BPO for wastewater servicing in the area is set out in the diagram below:





Waiuku Wastewater Treatment Plant.

### Contact us

For further information to be kept informed or queries regarding the project please contact us on:

Phone: 09 442 2222 Email: southwest@water.co.nz Or visit www.watercare.co.nz - 'work in your area'.

#### What happens next?

The team is researching the five feasible options and would like to share these with the will be holding a series of provide your feedback. We also welcome feedback at any stage of the project and further details will be provided on the information sessions in

We are looking for the following

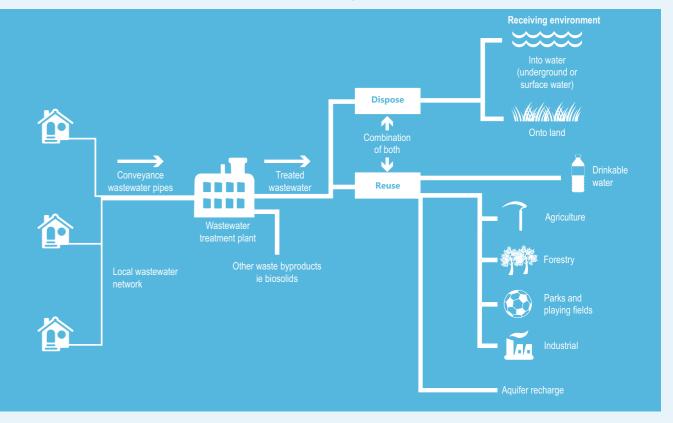
- Do you think there are any other options for discharging treated wastewater, or any receiving environments we
- Have you ever thought about wastewater re-use i your community? How do Do you like the idea?
- Are any of the receiving environments more important to you?
- Do you use the Manukau Harbour and/or the **Tasman Sea for recreation** or food gathering? Are there any areas you are particularly concerned



# An update on the... South-West Wastewater **Servicing Project**

Work is underway to identify options for managing wastewater from the growing communities in Kingseat, Clarks Beach, Glenbrook and Waiuku. This newsletter provides an update on what we have been up to, a brief outlook at next year's activities and when we will be seeking community feedback.

#### How could wastewater from this area be managed in the future?



To come up with a list of potential options to manage the wastewater in the south-west area, we need to think carefully about the key elements of a wastewater system, which are shown in the diagram above:

- discharges around New Zealand.
- environment
- Local network and conveyance pipes are also part of the wastewater system, and will be addressed at a later stage of the project.

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• The 'receiving environment' - this is the technical name for the place where treated wastewater is discharged to. There are several different options of where the treated wastewater could go, for example, to a river or the marine environment, to groundwater (aquifer), industrial processes or even drinking water! There are examples of most of these types of

The wastewater treatment plant – this is the facility where wastewater from the community (including houses, schools, businesses and industry) is treated to remove contaminants before it is ready for re-use or discharge to the receiving



#### The receiving environment

The receiving environment where the wastewater is discharged has a big influence on the type of wastewater treatment plant that needs to be used. This is because the plant must be designed to treat the wastewater to a level that minimises effects on the receiving environment – and some are much more sensitive than others. Modern treatment facilities can be designed to achieve almost any level of contaminant removal, but in general the higher the level of treatment, the greater the cost and use of resources. Choosing the best receiving environment for a wastewater system is one of the most important decisions that needs to be made.

#### What receiving environments are being looked at?

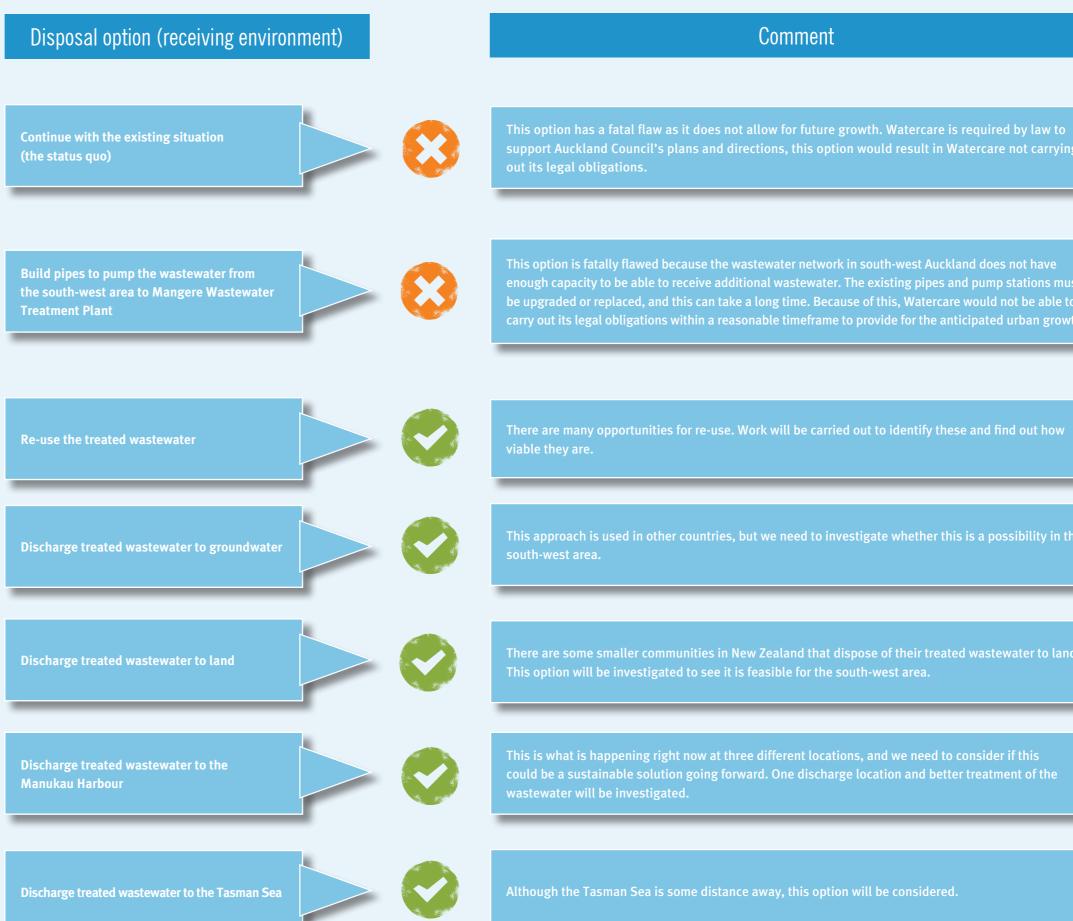
So far, we have put together a 'list of disposal options' that focuses on how and where the wastewater can be re-used or disposed. There are seven options, each with a number of variations, for example where the wastewater treatment plant could be located. From this list, we have ruled out those options that have a 'fatal flaw' and therefore excluded from further assessment.

#### Project overview

The South-West Wastewater Servicing Project will look at the different ways we might be able to handle and treat the extra wastewater generated from growing communities in the Kingseat, Clarks Beach, Glenbrook Beach and Waiuku areas. We'll also be taking into consideration how the growth in the other areas of Franklin (for example Pukekohe) may need to be accounted for, but at the moment our focus will be on providing wastewater services to the communities mentioned above.

This project will be looking to identify the 'best practicable option' to manage the wastewater generated in these areas. This option will consider and balance environmental, cultural, operational and economic factors.

#### List of investigated disposal options:



enough capacity to be able to receive additional wastewater. The existing pipes and pump stations must be upgraded or replaced, and this can take a long time. Because of this, Watercare would not be able to

There are some smaller communities in New Zealand that dispose of their treated wastewater to land.