

Glen Eden wastewater storage and pipeline upgrades



Harold Moody tank: The new structure being constructed in the carpark will be sunk in a controlled exercise.

Above ground works planned to sink

The large wastewater overflow holding tank being constructed in the carpark of Harold Moody Reserve reached an important milestone on 29 September.

The concrete was poured for the first of three levels or 'lifts' to form the 18 metre diameter ring wall. These walls will be built one on top of the other to make up the external walls of the tank. Once set the concrete ring will be lowered by controlled excavation, step by step using its own weight until the top of the ring is level with the ground.

At this point when the entire structure is below ground the form work that held the concrete will be rebuilt on top of the first wall. When that casing is in place the process will begin again and more concrete will be poured to create the next 'lift' in the wall.

This will be repeated until all three of the sections have been poured, set and sunk. At any one time there will only be four metres of wall above the ground.

Once the entire structure is completed it will be 12 metres deep and able to hold up to two million litres of wastewater during wet weather flows.

This 'top down' or 'caisson' method of construction is rarely used in New Zealand although it is common overseas so the project has attracted interest from professionals and the public.

You can watch the tank sink slowly, day by day, from the safety of the viewing windows cut into the site walls. In the new year we will also organise an event where the public can come and have a closer look.

Once the tank is complete, (and the roof and fittings are attached) the complicated engineering will be completely hidden underground with the car park being replaced as it was prior to construction.

Sherrybrooke Esplanade work will benefit Waikumete Stream



The next stage of the project will start in November when the team begins working in Sherrybrooke Esplanade and Parris Park.

The new pipes will increase the capacity of the existing wastewater system and reduce the number of overflows that occur after heavy rain. Ultimately this will help improve the water quality of Waikumete Stream, Henderson Creek and the Waitemata Harbour.

The majority of the work is being done in the reserve area so there won't be any traffic restrictions in place. There will however, be more heavy vehicles and trucks operating in the area so please take care when crossing the roads.

Working in parks brings unique challenges as everything needs to be done in accordance with the resource consents causing as little impact on the surrounding environment as possible.

Protecting water quality in the nearby Waikumete Stream, maintaining healthy fish and bird life and working around protected trees are all priorities for Watercare and the project contractor McConnell Dowell.

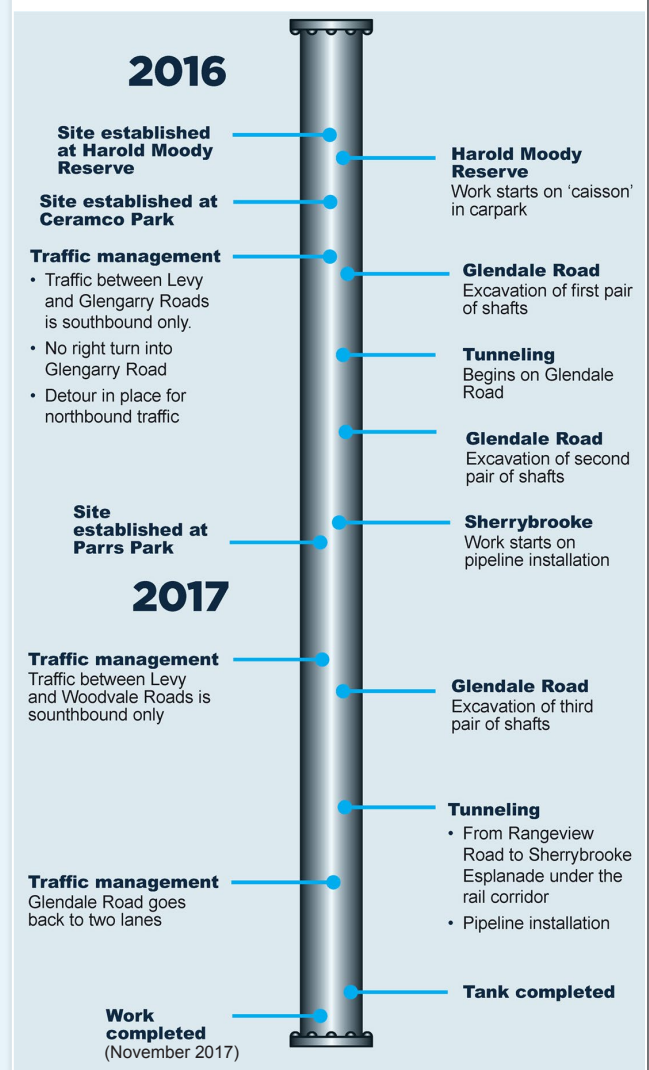
Work starts along Glendale Road

The first of the six 10 metre deep access shafts along Glendale Road has been excavated and work is beginning on the second and third.

The 'trenchless technology' being used will drill horizontally under the road to lay the pipes between shafts later in the year. The project was designed using trenchless drilling methods to reduce the construction 'footprint' helping to minimise disruption and access issues for local residents.

The work on Glendale Road is expected to be completed in early 2017 but will be dependent on the weather.

Construction timeline



Any questions?

If you have any questions regarding the project please feel free to contact the project team via email

@ Gleneden@water.co.nz OR call

0508 MCD COMMS (0508 623266)

Regular project updates can be found by visiting www.watercare.co.nz

How well are we doing?

We welcome feedback on this project and would appreciate it if you could spare a few moments to complete a short survey.

Scan the QR code below with your smart phone to get directed to our survey or go to:

<http://yoursay.watercare.co.nz/GLENEDEN>

