

CENTRAL INTERCEPTOR BULLETIN

Miranda Reserve, 339-351 Blockhouse Bay Road, Blockhouse Bay

We're building the Central Interceptor, a super-sized wastewater tunnel to reduce overflows, creating a better environment for you to enjoy.

Site update

Our micro-TBM, Domenica has completed her work on Link Sewer C, and she was removed from the ground at Pump Station 25 in March 2023, serviced and returned to the ground at Mount Albert in July to tunnel her way to Rawalpindi Reserve on Link Sewer C.

Our Miranda Reserve site was closed for a large portion of this year while we awaited the arrival of our GRP cascade liners. Our reinforced fibreglass liners are pre-assembled as much as possible at the manufacturing plant, then shipped to the construction site overnight as oversized loads. Once on site, segments and lids are bolted together to form the larger modules for installation.

Each liner is made up of two halves, a wet and a dry side. Wastewater goes into the wet half of the cascade shaft, destined for the Central Interceptor, while the dry side is for access for maintenance and repair. On the wet side, there are a series of shelves, called cascades, that are built into the shaft walls. These shelves help control the flow and energy of the wastewater as it drops into the tunnel below.



What is next

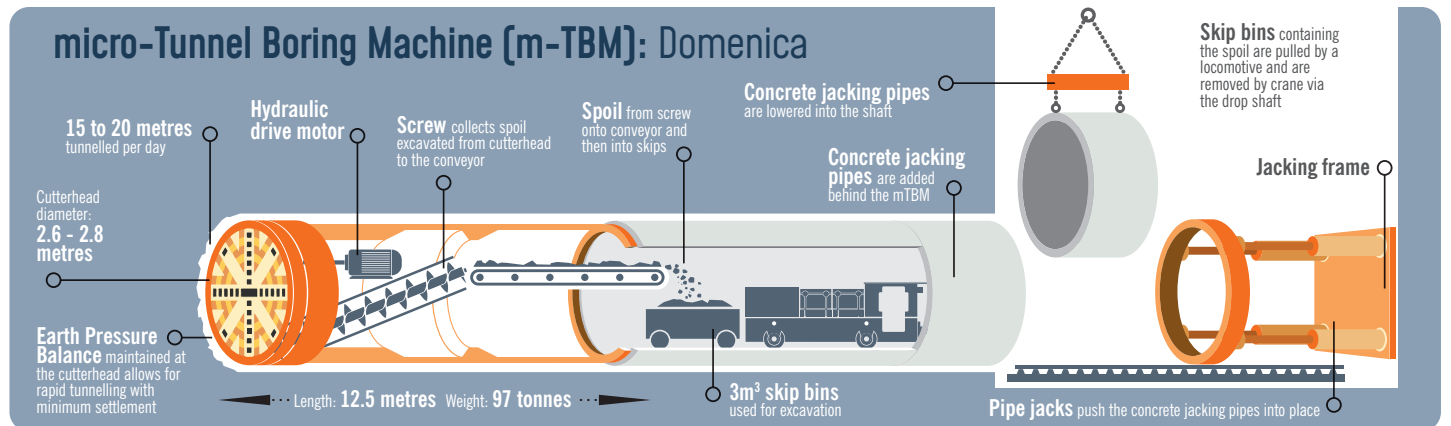
Now that our liner is in the shaft and concreted into place the team is installing all the connections for the local wastewater network. This involves connecting the fibreglass liner to the completed Link Sewer C tunnel as well as the connections from the newly constructed chamber to the front of the site.

Once this is all finished, we can reinstate the site.

Tunnel progress

Check out our website which now has a weekly update of the TBM's progress. <https://www.watercare.co.nz/Central-interceptor/Constructing-the-Central-Interceptor>.

You can also follow us on Facebook, or Instagram.





Electric trucks

The Central Interceptor project is constantly looking for new ways to improve sustainability in all aspects of construction. So, we're charging ahead, making our heavy vehicle fleet greener with three electric tipper trucks.

The vehicles have a 13-tonne load carrying capacity and weigh 26,000kg when fully loaded. They will transport more than 66,000 tonnes of spoil from Central Interceptor sites throughout the project. This will reduce project emissions by more than 300 tonnes in total. This is the equivalent of driving from Cape Reinga to Bluff more than 800 times.



E-trucks produce 79% less carbon than diesel trucks. For every 100,000km travelled by our trucks, we will save 50,000 litres of diesel. Not only are E-trucks more efficient but they are also much quieter than diesel trucks. This is a huge bonus as many of our sites are in residential areas.

Any questions?

For up to date information please see our website:

 www.centralinterceptor.co.nz

You can also email us at:

 ciproject@gajv.com

Or phone:

 **0800 GAJV 02 (0800425802)**

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Who it takes to build the Central Interceptor

The Central Interceptor project stretches across 16 sites from Māngere to Grey Lynn. Each of these sites has a team of people working on various activities and construction stages. There are numerous jobs on this project, each requiring different skills, backgrounds, experience and qualifications. This regular feature will give some insight into one of the many important roles on the project.

Quality Engineer

What is a quality engineer?

A quality engineer monitors and tests the quality of the products, materials and processes on the project. They ensure that all the documentation and works carried out are compliant with the project's contract, drawings, specifications, standards and procedures. They essentially ensure that everything on site is carried out according to plan.

What qualifications do you need for this role?

A degree in engineering and construction experience.

What are some of the daily activities of a quality engineer?

Our quality engineers have many responsibilities on the Central Interceptor project. They review documentation, provide support to the construction team, analyse specifications, study construction drawings, carry out audits and address any non-conformances with the site teams and conduct inspections on materials used on site. Just to name a few!

What are the challenges of this role?

Most of our sites on the CI project share similar construction requirements, such as shafts, chambers, manholes and sewer and stormwater connections. This means that lessons learned from one site can be applied to the others. There are occasions on the project when the quality of a component may not

be up to the required standard and it is the quality engineer who will lead the investigation and ensure the issue is resolved before the work can continue. Whilst they can be challenging to overcome, these incidents are opportunities to learn and grow from mistakes. They help raise awareness among teams at other sites about potential quality issues and provide insights on how to prevent them in the future.

Is there anything about this role that would surprise people?

You might be surprised to know the history of quality assurance starts in World War II, when ammunition had to be tested for performance. Nowadays, the end purpose of QA is to correct potential errors before they affect a project or product before being released.



We encourage you to receive these updates electronically - send us your email, your current mailing address and quote "Sign me up: Miranda site bulletin" to ciproject@water.co.nz