



# M41 Merri Creek to MCG Water Main Renewal Project March 2018

Melbourne Water will start work in early March 2018 to renew the M41 water main. The M41 water main is a large diameter pipeline that supplies high quality, safe drinking water to Melbourne's inner suburbs.

The water main is almost 100 years old and is at high risk of failure. Melbourne Water's renewal works on the water main will run from Merri Creek Northcote to Wellington Parade, East Melbourne.

The project is expected to be completed by late 2019.

CPB Black and Veatch Joint Venture have been appointed by Melbourne Water to deliver this design and construct project.

The delivery of this project will enable Melbourne Water to:

- Continue to supply high quality, safe drinking water to its customers;
- Increase capacity within the supply network to meet predicted future demand;
- Reduce water losses and disruptions from leaks.

## Project scope and methodologies

During construction, Melbourne Water is aiming to keep the existing water mains operational and minimise disruptions to public transport services, road users, and the general community. These requirements have influenced the construction methodologies chosen and the sequence of works.

## Construction methodology

**Trench and lay** – this involves excavating a trench approximately three metres deep, parallel to the existing water main. The project will then place new pipe in the ground and backfill progressively.

**Lift and relay** – this involves digging up the existing pipe and laying a new pipe in the same location. This methodology is required to be performed during the winter months when water is at its lowest demand as it requires the existing water main to be temporarily shut down to allow work to take place.

**Tunnel boring** – this methodology requires the project to construct two tunnel shafts to launch and retrieve the Tunnel Boring Machine (TBM). The shafts will be approximately ten metres deep, five metres wide and ten metres long. Once the TBM is in place it will bore through the earth removing spoil and then pipe will be placed through.

**Slip Lining** – this method involves digging up a section of the existing water main and inserting a pipe within the existing pipe. The project will construct an area eight metres long, three metres wide and four metres deep on either side of the slip lining location. This method will be performed under some intersections to avoid digging up the road to ensure continuation of public transport. Slip lining will be carried out at Johnston Street and under tram tracks at Gertrude Street, and Victoria and Wellington Parades.

**Reinstatement** – once we have completed laying pipe and upgrading the water main, the project will re-asphalt roads kerb to kerb and reinstate through Edinburgh Gardens where the project has impacted.

## Project timeline

Site investigations along the project alignment will begin in March 2018 and take approximately four to six weeks to complete. Localised changes to traffic and parking are expected to support these works. Following investigation works, construction will commence. The map (right) and table below show the proposed timelines and locations.

Location of work	Estimated timeline
Holden Street and Bennet Street	Early May 2018 to August 2018
Alfred Crescent to Alexandra Parade (Edinburgh Gardens)	August 2018 to October 2018
Alexandra Parade & Napier Street (Tunnel Boring)	May 2018 to December 2018
George Street from Kerr Street to Victoria Parade	May 2018 to October 2018
Albert Street and Clarendon Street	January 2019 to April 2019
Scotchmer Street and Falconer Street	January 2019 to February 2019
Napier Street and Kerr Street	November 2018 to February 2019

## WHAT TO EXPECT DURING CONSTRUCTION

### Working hours

Majority of the works will be performed during the day between 7am to 6pm Monday to Friday and occasionally on Saturday between 7am to 1pm.

Where the alignment crosses busy intersections such as Wellington Parade, Victoria Parade, and Queens Parade the project will undertake 24 hour works to ensure minimal disruption to traffic.

### Noise and Vibration

Some noise and vibration is expected as part of the works. Noise and vibration will be generated from moving vehicles, machinery, reversing beepers and generators to power equipment. For work taking place during the night we will plan to reduce noise as much as possible.

### Traffic, parking, cyclists and pedestrians

There will be changes to traffic conditions including car park closures, lane closures, speed limit reductions and full road closures with detours while we work on these local roads. Detours, signage and traffic controllers will be in place to manage traffic flow and ensure motorists, cyclists, pedestrians and residents are able to safely navigate around our work areas.

We will work with residents near the work areas to ensure foot access to private property is maintained.

### Respecting local heritage and the environment

We have worked hard to minimise the need for vegetation removal as much as possible. In some cases, we may need to undertake some trimming or removal where trees are located in close proximity to the alignment. We will notify local residents and businesses about these activities prior to starting works.

### Water services

There should be no interruption to your water supply while this construction work is being completed. If you do experience any disruption, please contact your local water retailer, City West Water on 13 16 91.

### Keeping you informed

Community updates will be used to inform residents and businesses directly next to the work areas. Signs will be used around our work areas to inform pedestrians, cyclists and drivers of changes to road conditions. More information and updates will be available on the Melbourne Water website.



Augmented reality showing proposed works in Clarendon Street, East Melbourne



Tunnel Boring Machine operating on St Georges Road Northcote in 2017

PROJECT ALIGNMENT MAP





MEET THE TEAM



We invite you to come and meet the team before we start construction in your area.

**Information Session 1**

Date: Tuesday 6 March 2018

Time: 4pm to 6pm

Location: Smith Reserve, Alexandra Parade, Fitzroy

**Information Session 2**

Date: Thursday 8 March 2018

Time: 3pm to 6pm

Location: Bargoonga Nganjin, North Fitzroy Library,  
182 St Georges Road, North Fitzroy

**Information Session 3**

Date: Thursday 15 March 2018

Time: 4pm to 6pm

Location: Condell Street Reserve,  
(between Napier and George Streets) Condell Street, Fitzroy

**Information Session 4**

Date: Saturday 17 March 2018

Time: 10am to 12pm

Location: Edinburgh Gardens Rotunda, North Fitzroy

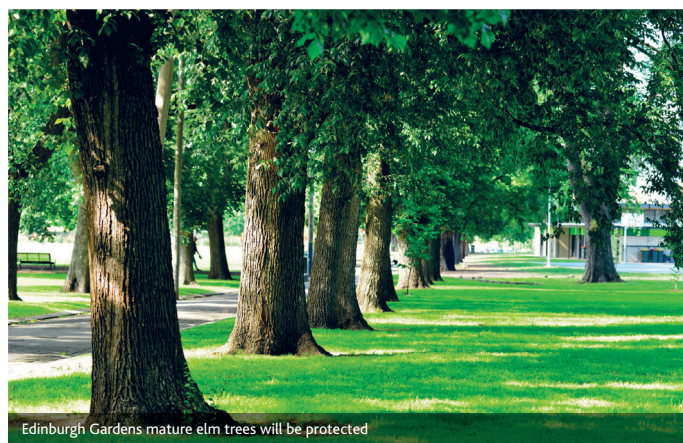
**Feedback**

We want to work with local residents, businesses and the wider community and encourage you to contact the project.

Melbourne Water and CPB Black and Veatch Joint Venture appreciate your understanding while we replace the M41 water main.



Augmented reality showing proposed works in Edinburgh Gardens, Fitzroy



Edinburgh Gardens mature elm trees will be protected

## More information

If you wish to receive regular information about the project please contact the team to subscribe to the project email distribution list.

**To contact the M41 project team**

For more information or any questions or concerns, you can contact the M41 project team on 1800 316 713 or email [m41@melbournewater.com.au](mailto:m41@melbournewater.com.au)

**For updates, visit our website**

[www.yoursay.melbournewater.com.au/m41](http://www.yoursay.melbournewater.com.au/m41)



**To access the TTY and Interpreter Services**

TTY 133 677

Interpreter 131 450

**To contact Melbourne Water**

Phone 131 722 Email [enquiry@melbournewater.com.au](mailto:enquiry@melbournewater.com.au)

