



Completed section of a Sydney Metro tunnel between Chatswood and Crows Nest

## Construction of Chatswood dive nearing completion

Work at the Sydney Metro Chatswood dive site being done by the John Holland CPB Ghella (JHCPBG) team is coming to an end. A recent major milestone has been the completion of the permanent dive structure that will allow the metro trains to enter and exit the tunnels.

One of the biggest challenges the Chatswood team faced was the site's proximity to the rail corridor. Space had to be created by moving the existing rail lines to accommodate the new metro tracks. This included constructing new retaining and noise walls on the western side of the corridor. Other activities to facilitate this change were completed by other contractors including the removal of the Nelson Street bridge and work on the Mowbray Road rail overbridge.

Sydney Metro is Australia's biggest public transport project. It will transform Sydney, delivering more trains and faster services for customers across the network.

Sydney Metro City & Southwest extends the new metro network from the end of Sydney Metro Northwest at Chatswood, under Sydney Harbour, through the CBD, and west to Bankstown.

John Holland CPB Ghella (JHCPBG) is building the 15.5 kilometre long twin railway tunnels between Chatswood and Sydenham and excavating six new metro stations.

## Project update along the Sydney Metro City & Southwest alignment

As the tunnelling and station excavation portion of the project nears completion, the JHCPBG team has begun to hand over other sites to follow-on contractors. The future Waterloo station in Sydney's south has now been handed over to the integrated station development team who will deliver the station and Metro Quarter.

The northern tunnels between Chatswood and Victoria Cross, and the new station excavated at Crows Nest have been handed over to the Line-wide contractor, Systems Connect.

Systems Connect (an unincorporated joint venture between CPB Contractors and UGL Limited) is now delivering Line-wide work from the Chatswood site. This includes installing metro rail track, power systems, communications, signalling systems and infrastructure to turn the excavated tunnels into a working railway

between Chatswood and Sydenham. Work will also include the permanent systems, services and buildings required for Sydney Metro operations between Chatswood and Bankstown.

In the south, the tunnels from the Marrickville dive site to Pitt Street Station in the city were also handed over to Systems Connect.

Elsewhere, excavation of the escalator barrel from the surface of Martin Place down to the future metro platforms has been completed. Major works are underway at the Barangaroo station site, where the rail crossover cavern is being built, which will allow the metro trains to switch tracks when fully operational. In North Sydney, at Victoria Cross station, the permanent concrete lining of the largest rail cavern in Australia is now complete.

## Tunnelling from Chatswood to Blues Point

Early in construction, the area that is now the permanent dive structure was used to assemble, launch and support tunnel boring machines (TBMs) Wendy and Mabel. Both machines finished work after tunnelling 6.2 kilometres to Blues Point where they were retrieved for reuse on a Brisbane tunnelling project.



The Chatswood dive where TBMs Wendy and Mabel launched in early 2018

All the rock excavated by the TBMs was carried on a continuous conveyor back to the Chatswood dive site to be stored in the acoustic shed and later transported by trucks for reuse. About 1.78 million tonnes of material left the site, excavated from the twin tunnels, the dive itself and from the rail corridor widening.

The Tunnel and Station Excavation team would like to take this opportunity to say thank you to the entire Chatswood community for your interest in the project, for joining us at community open days and for your ongoing support over the past two and a half years.



The entrance to the twin Sydney Metro tunnels from the Chatswood dive site

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[tunnels@transport.nsw.gov.au](mailto:tunnels@transport.nsw.gov.au)

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If you need an interpreter, call TIS National on **131 450** and ask them to call **1800 171 386**