

An artist's impression of Luddenham Station. Subject to change.

# Wave of community support for city-shaping Metro line for Western Sydney

The Sydney Metro – Western Sydney Airport project is enjoying widespread support as the project continues construction across the alignment.

The city-shaping 23-kilometre new railway – from St Marys to the Aerotropolis (the new Western Sydney suburb of Bradfield), via new Western Sydney International (Nancy-Bird Walton) Airport – will become the transport spine for Greater Western Sydney, connecting communities and travellers with the new airport and the growing region.

From Bringelly to St Marys, Sydney Metro has spoken with more than 5,600 community members and stakeholders across nearly 30 engagement events during the year, including shows, festivals, open days, information sessions and shopping mall displays. Having conversations on the ground like this are such an important way we can learn about how people are feeling about the new Metro, and we thank everyone who has taken the time to talk to us while we've been out and about. We look forward to seeing you at one of our community engagement events during 2024!



Sydney Metro – Western Sydney Airport Project Manager Hani Andrawes and family at the Surface and Civil Alignment Works Open Day weekend at Badgerys Creek and Luddenham. See inside page for more.



## High spirits at Luddenham event

On 4 and 5 November 2023, CPBUI –our contractor for the Surface and Civil Alignment Works (SCAW) –hosted a weekend full of fun, food and education for staff and community members alike to get a first-hand look at the future Sydney Metro –Western Sydney Airport project.

The two-day event saw more than 300 people visit the SCAW site office in Badgerys Creek for a range of activities and learning opportunities to impress and entertain the whole family. Attendees were treated to a bus tour of the new Luddenham Station site, home to what will be the only above ground station along the metro line, where they marvelled at the construction of the 9.5-high viaduct that will underpin the elevated station. Back at the site office, snow cones, burgers and fairy floss were free-flowing, and guests could continue the fun learning about fire safety, snake safety with live snake demonstrations, basic construction with the Little Tradies team, smiling for the photobooth and contributing to an indigenous community art piece.

Overall, it was a successful weekend that spectacularly showcased the work of the SCAW contract and was an enjoyable event for everyone who attended.



Luddenham community open day.

## Deepening community ties at Bringelly

CPB Contractors Ghella (CPBG), the Station boxes and Tunnelling (SBT) contractor for the Sydney Metro –Western Sydney Airport, has held community information sessions and open days at both ends of the project alignment throughout the year. The most recent community open day was held at the Bringelly Services Facility site on Saturday 25 November 2023.

The day included half-hour guided tours to the Bringelly services shaft, where 90 community members had the opportunity to look down into the 29-metre-deep shaft from a viewing platform on the surface.



CPBG's Matthew Aldous-Horne providing a site tour for community members at the Bringelly open day.

## Vital viaduct milestones

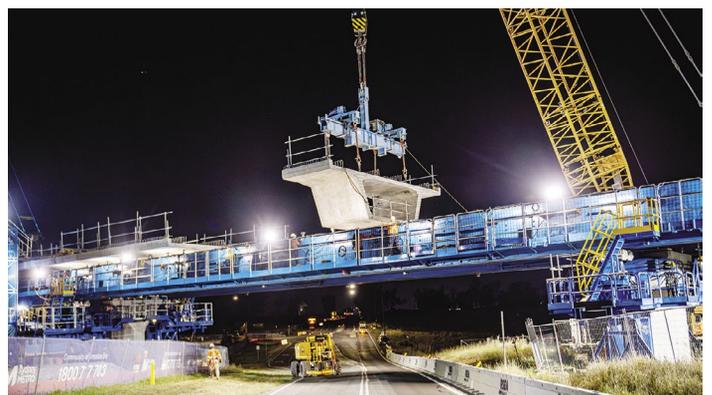
### Surface and Civil Alignment Works (SCAW)

2023 was a busy year for the SCAW project team and their contractor CPBUI. They reached a vital milestone in the completion of the Luddenham Station deck, the project's only above ground station along the alignment. The station deck is 100m long and has been constructed using 32 concrete segments across four spans which are supported by five piers. The Luddenham Station site has now been handed over to Parklife Metro, the contractor for the project's Stations, Systems, Trains, Operations and Maintenance, ready for work on the station to begin.



CPBUI Project Director Vishal Khosla with Sydney Metro –Western Sydney Airport Surface and Civil Alignment Works Delivery Director Susan McMahon at the station deck viaduct, at the Luddenham Metro Station site.

SCAW has also successfully completed the intricate process of installing the viaduct over Luddenham Road, south of the station site. Each segment of the viaduct weighs between 45 and 65 tonnes, with the Luddenham Road crossing consisting of 13 segments across a single span.



Installation of the viaduct crossing over Luddenham Road.

In total, 1,101 segments will be required for the elevated viaduct at Orchard Hills and Luddenham, across 84 piers. By the end of the year, 243 segments and 77 piers will have been installed. The segments are continuously rolling out and being transported to Sydney from our precast yard in Buchanan, near Newcastle. By the end of the year, 558 segments are expected to be completed, and 21 spans installed.

When complete, the entire viaduct will span an impressive 3.5-kilometres, crossing over creeks and major roads for motorists to see overhead –an incredible engineering feat!

# Digging deep: journeys of the tunnel boring machines continue

## Station Boxes and Tunnelling

CPB Contractors Ghella (CPBG), the Station Boxes and tunnelling contractor for the Sydney Metro – Western Sydney Airport, has achieved a list of impressive project milestones in 2023, with even more in store next year.



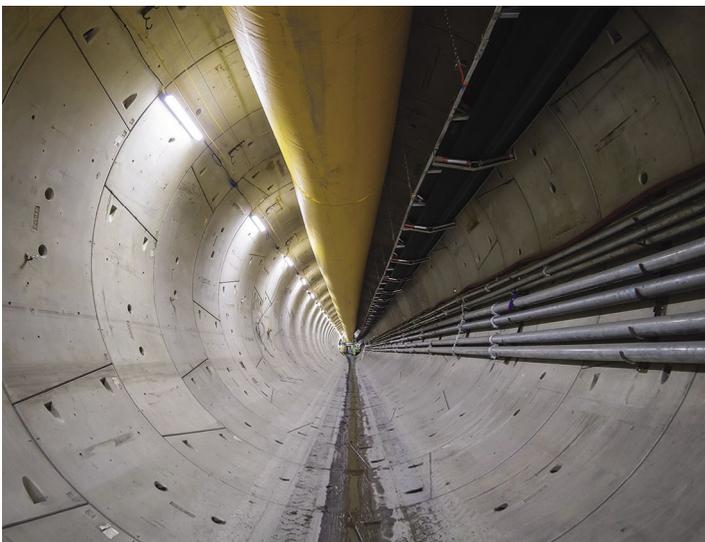
TBM Peggy breaking through at the Airport Terminal temporary shaft while TBM Eileen is traversing the shaft.



Tunnellers on TBM Eileen cheer on the arrival of TBM Peggy at the Airport Terminal temporary shaft.

Four tunnel boring machines (TBMs) were assembled and launched to start building the tunnels for the project. Twin tunnels are required at both ends of the Western Sydney Airport metro line – 5.5-kilometres south from Airport Business Park to Aerotropolis and 4.3-kilometres north from Orchard Hills to St Marys. TBMs Eileen and Peggy are building the southern tunnels and TBMs Catherine and Marlene are making their way north. All four will reach their final destinations by mid-2024, with breakthroughs at the services facility shafts along the way.

Eileen and Peggy recently broke through at a temporary shaft just south of the Airport Terminal station box and are tunnelling again towards their next stop at the Bringelly Services Facility. At the northern end of the alignment, Catherine is expected to reach her next stop at the Claremont Meadows Services Facility early next year. The community can stay up to date on tunnelling progress via the TBM tracker on the Sydney Metro website at [sydneymetro.info/journey-sydney-metro-western-sydney-airport-tunnel-boring-machines](https://sydneymetro.info/journey-sydney-metro-western-sydney-airport-tunnel-boring-machines).



TBM Marlene's tunnel has passed underneath the M4 Motorway.

## Station Boxes excavations completed

Five of the six metro stations for the Western Sydney Airport line will be underground, while the other one will be on the elevated viaduct at Luddenham. CPBG has excavated the station boxes for the project at St Marys, Orchard Hills, Airport Business Park, Airport Terminal and Aerotropolis.

Excavation started in 2022 and was completed, along with concrete lining, at all sites during 2023. The station boxes are up to 25 metres deep, up to 350 metres long and involved excavating a total of more than 1.4 million tonnes of spoil and rock – enough to fill more than 230 Olympic swimming pools!



The incredible 12-month transformation at St Marys, with the station box now fully excavated and lined with concrete.

# Planning continues for Western Sydney's new Metro stations

## Stations, Systems, Trains, Operations and Maintenance

Parklife Metro, the contractor for the project's Stations, Systems, Trains, Operations and Maintenance (SSTOM) is continuing to mobilise with early works at project sites along the alignment.

Awarded the SSTOM contract in December 2022, Parklife Metro will deliver 12 new metro trains, six new stations between St Marys and the Aerotropolis, rail systems and the stabling and maintenance facility to be built at Orchard Hills. Parklife Metro will operate and maintain the Western Sydney Airport line for 15 years after it starts running.

Parklife has just completed its public display of Stage One of the Place, Urban Design and Corridor Landscape Plan (PUDCLP), the Stabling and Maintenance Facility and the buildings at Luddenham Station (20 November to 15 December 2023), and is currently reviewing the submissions received during the public display period. Our thanks to everyone who has provided feedback, and to those community members who took the time to speak to Parklife at the PUDCLP community information sessions we held in St Claire and St Marys.

Stage Two of the PUDCLP will be released for public comment in early 2024, and will cover St Marys Station and Precinct, Orchard Hills Station and Precinct, Luddenham Precinct, Aerotropolis Station and Precinct, and the corridor and landscaping. Information will be provided to the community once the public display for Stage Two opens.



An artist's impression of Aerotropolis Metro Station. Subject to change.

Parklife Metro has already recorded important SSTOM milestones for the project, with the staged handover of sites from our both our Surface and Civil Alignment Works and Station Box and Tunnelling contractors. 2024 will mark the next exciting chapter for SSTOM, with construction of stations to get underway once designs are finalised.

An artist's impression of St Marys Metro Station. Subject to change.



# Watermain's major achievement

## Advanced and Enabling Works

An important milestone in the Advanced and Enabling Works (AEW) for Sydney Metro – Western Sydney Airport was reached in November 2023, with the completion of the Stage 2 Stabling and Maintenance Facility (SMF) watermain delivered by the Utilities team. The watermain has been commissioned and the contractor is finalising restorations.

In addition to the initial Stage 1 construction completed earlier this year, the 1.2-kilometre watermain extension along Luddenham Road and Mamre Road up to Solander Drive in Stage 2 will increase water capacity for the SMF, ensuring a permanent water supply to the facility.

Significant outcomes achieved during the project include:

- Successful consultation with Penrith City Council for design approval for the works on South Creek Bridge which involved temporary connections attached to the bridge.
- Pipe installation via horizontal directional drill method at creek crossings and across Mamre Road.
- A three-staged connection to commission watermain with Sydney Water.
- Working with local residents for works along Solander Drive to minimise disruption during nightworks.
- Successful relocation of a bus stop on Solander Drive to facilitate construction activities in coordination with the local bus operator.
- Close collaboration with the Transport for NSW Mamre Road Stage 1 Upgrade project team, leading to an optimal Transport cluster outcome that minimized future rework and disruptions to the local community.
- No safety incidents or community complaints during the project works.

The successful completion of this milestone is the result of members of the Sydney Metro – Western Sydney Airport teams and service providers working together to achieve a common goal. This achievement was made possible by the collaborative teamwork from Utilities team, Environment, Sustainability and Planning, Commercial, Community and Stakeholder, Safety and Wellbeing, Workforce Development, PMO, Procurement, Interface Team, the engaged designer/water servicing coordinator Warren Smith Consulting Engineers and the delivery contractor Quickway.



Pipe laying on Luddenham Road.

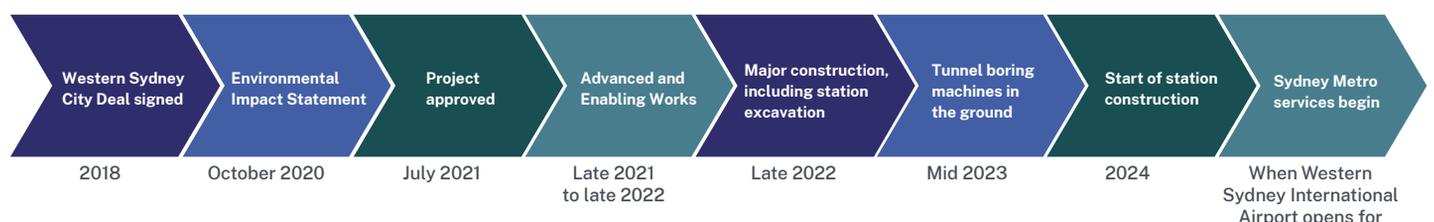


Pipe installed via horizontal directional drilling method across Mamre Road.



Temporary water main on South Creek Bridge along Luddenham Road.

## Sydney Metro – Western Sydney Airport project timeline





**Contact us**

If you have any questions or would like more information please contact our project team:

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**Stay up-to-date** with the latest project information on the Sydney Metro website