

Pre-Construction Minor Works Approval Form

Minor Works are defined as any low impact activities that are undertaken prior to the commencement of 'construction' as defined in the project's applicable planning approval. However if Minor Works affect or potentially affect heritage items, threatened species, populations or endangered ecological communities, these works are defined as 'construction' unless otherwise determined by the applicable planning authority.

Minor Works approvals do not remove any obligation to comply with the project's applicable planning approval conditions (including requirements prior to 'any works' commencing) or obtain any other applicable permits, licenses or approvals as necessary.

This application and all supporting information must be submitted to Sydney Metro/the Environmental Representative as one (1) PDF file at least 10 business days prior to the commencement of the proposed Minor Works.

Part 1: Application	
Contractor:	Stantec
Project:	Sydney Metro City & Southwest
Application Title: (e.g. Smith St trenching works)	Barangaroo Chilled Water Facility Environmental Monitoring Program
Application Number:	BR-MWA-004
Application Date:	28/10/2024
Planning Approval:	CSSI 7400 Chatswood to Sydenham – Consistency Assessment: https://www.sydneymetro.info/sites/default/files/2022-08/CA-cooling-water-supply-Barangaroo-Station.pdf
Minor Works Categories: - Highlight as applicable. - If Items 4, 8 or 11 are applicable, this form must be endorsed by an Environmental Representative.	- Survey, survey facilitation and investigations works (including road and building dilapidation survey works, drilling and excavation). - Treatment of contaminated sites. - Establishment of ancillary facilities (excluding demolition), including construction of ancillary facility access roads and providing facility utilities. - Operation of ancillary facilities that have minimal impact on the environment and community. - Minor clearing and relocation of vegetation (including native). - Installation of mitigation measures, including erosion and sediment controls, temporary exclusion fencing for sensitive areas and acoustic treatments. - Property acquisition adjustment works, including installation of property fencing and utility relocation and adjustments to properties. - Utility relocation and connections. - Maintenance of existing buildings and structures. - Archaeological testing under the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010) or archaeological monitoring undertaken in association with other Minor Works to ensure there is no impact on heritage items. - Any other activities that have minimal environmental impact, including construction of minor access roads, temporary relocation of pedestrian and cycle paths and the provision of property access.
Planning Authority Determination: Will the proposed works affect or have the potential to affect heritage items, threatened species, populations or endangered ecological communities?	<i>If 'Yes', this completed form must be endorsed by an Environmental Representative, approved by Sydney Metro and submitted to the applicable planning authority to determine that the works are not defined as 'construction'.</i> No

Part 2: Details

Describe the proposed Minor Works:

Including work methodologies, site location(s) and site description(s) (e.g. landscape type, waterways, etc.).

To meet the requirements of the Barangaroo Station Chilled Water Facility – Environmental Monitoring Program, validation of desktop modelling predictions relating to the temperature plumes generated by the chilled water facility is required. To facilitate this validation field surveys are to be undertaken using vessel deployed instrumentation (in water) and drones (aerial).

Boat Deployed and Seabed Mounted Sensors

A Seabird multi-parameter conductivity, temperature and depth (CTD) sensor will be deployed from a commercially in-survey vessel and used to profile temperature and depth. Temperature profiles will be conducted at designated points within the vicinity of the outfall with the vessel starting 'downwind'. Depending on the predicted tides on the day, approximately 10 locations within the vicinity of the outfall will be sampled once an hour.

A Teledyne acoustic doppler current profiler (ADCP) will also be mounted on the seabed to measure current speed and direction profiles. A GPS system would provide reliable locations of observed current speeds and water column temperatures. This will ensure that local current speed profiles can be described reliably for the time of data collection.

Location of the proposed seabed instrument deployment location and mooring configuration is below:

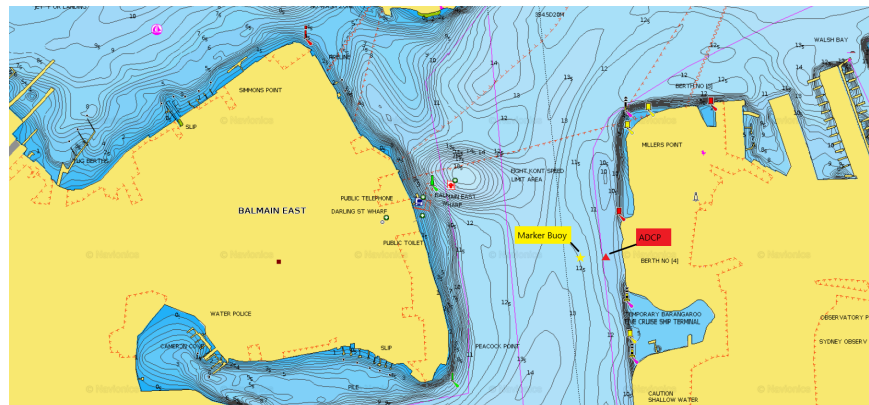


Figure 1 – Seabed instrument deployment location

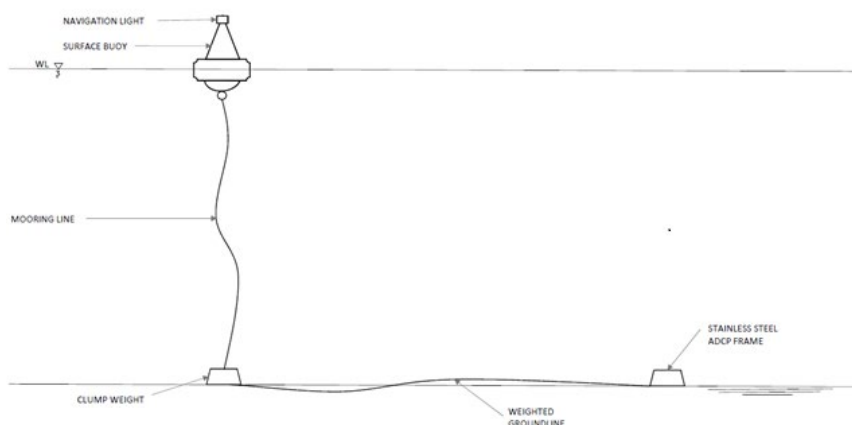


Figure 2 – Seabed instrument mooring configuration

A plankton net will also be towed behind the vessel.

Drone-mounted thermal imaging

A drone-mounted thermal imaging infra-red camera would be used to monitor the surface temperature of the plume. The drone would be flown in 20–30-minute intervals above the plume with data to be captured on the flood, ebb and slack tide over a single day.

Frequency of Surveys

Both the vessel deployed instrumentation / profiling and drone thermal imaging is to be conducted over 2 separate campaigns during from 5th November 2024 to 31st January 2025

Indicative dates are below subject to change:

1. Spring Tide Scenario

5/11/24, 6/11/24, 7/11/24, 12/11/24, 13/11/24, 14/11/24, 19/11/24, 20/11/24, 21/11/24, 5/12/24, 12/12/24, 19/12/24

2. Neap Tide Scenario

26/11/24, 27/11/24, 28/11/24, 11/12/24, 18/12/24, 9/01/25, 21/01/25

Planned Commencement Date:

November 2024

Local Sensitivities:

Describe the presence (if any) of local sensitive environmental areas and community receptors

Environmental:

- Sydney Harbour marine waters

Community:

- Foreshore general public
- Water side vessel operations such as commercial and recreational traffic

Part 3: Environmental Risk Assessment and Management

Prepare an Environmental Risk Assessment (in accordance with the [Sydney Metro Risk Management Standard](#)) and an Environmental Control Map for the proposed Minor Works and attach as Appendix 1.

If an Environmental Risk Assessment and/or an Environmental Control Map for the proposed Minor Works is/are already contained in existing documentation, attach the relevant section(s) as Appendix 1.

Documentation:

List any existing documents (including those referenced above) that the proposed Minor Works will be undertaken in accordance with and attach as Appendix 2 (e.g. plans, procedures, procedures, etc.).

Refer Appendix 1. Environment Control Map and Environmental Risk Assessment

Refer Appendix 2. Environmental Management Documentation:

1. Port Authority NSW Harbour Master Approval
2. Port Authority NSW Notice to Mariners
3. CASA Drone Flight Authorisation
4. RPA Drone Noise Assessment
5. Place Management NSW Drone Permit
6. Environmental Monitoring Program

Refer Appendix 3 : Community Notification

Part 4: Workforce Notification

How will the environmental and community risks and associated mitigation measures of the proposed Minor Works be communicated to the contractor's workforce?

A project site induction will be provided to all personal working on the project site with pre-start works meetings also be held prior to any works commencing. During the project induction and pre-start meetings relevant environmental aspects and risks associated with the works will be communicated.

Part 5: Community Consultation

What community consultation has been undertaken already?

Nil

What community consultation is planned to be undertaken?

The monthly newsletter references these works. Given they will be completed within the standard construction hours and listed activities for the site no specific consultation is expected to take place. <https://www.sydneymetro.info/station/city-stations>
https://www.sydneymetro.info/sites/default/files/2024-10/24.11.01%20-%20November%20monthly%20project%20update_FINAL%20WCAG.pdf

If drafted already, attach applicable Community Notification as Appendix 3.

Part 6: Contact Details

Nominate contractor's project manager, environmental and communications contact(s).

Name:		Position:	Project Manager	Phone:	0401 979 420
			Environmental (HSSE Advisor NSWACT)		+61 2 8448 1897
			Project Manager		0401 979 420

Part 7: Signature

This signature acknowledges that the proposed Minor Works will be undertaken in accordance with this application, have minimal environmental impact and are not defined as 'construction' in accordance with the applicable planning approval.

Name:

[REDACTED]

Signature:

[REDACTED]

Date:

24/10/2024

Determination Page

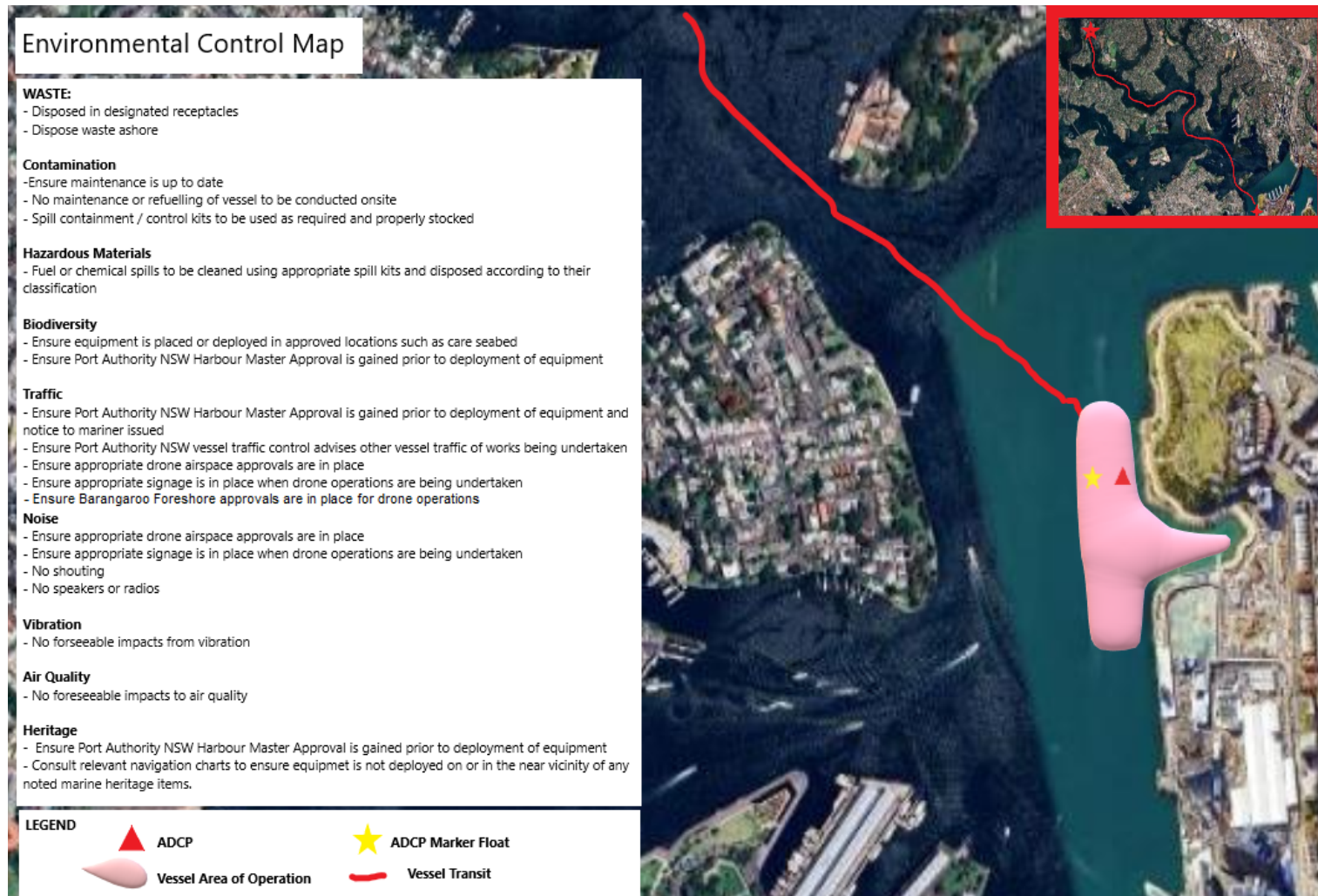
(Sydney Metro/Environmental Representative Use Only)

12. Endorsement/Approval

These signatures represent formal endorsement/approval for the proposed Minor Works to commence in accordance with this application and the applicable planning approval requirements (subject to any determination from the applicable planning authority as may be required by the planning approval conditions).

	Director Project Communications – Endorsement (required for all applications)	Director Environment, Sustainability & Planning – Approval (required for all applications)	Environmental Representative – Endorsement (required as necessary in accordance with the applicable planning approval, optional for all other circumstances)
Signature:			
Name:			
Date:	31/10/2024	31/10/2024	
Comments:			Supporting letter attached as Appendix 4 if necessary.
Conditions:			Supporting letter attached as Appendix 4 if necessary.
☐	Approved (by Sydney Metro)		
☐	Endorsed (by Environmental Representative)		
☐	Rejected		

Appendix 1: Environmental Control Map and Risk Assessment



Environmental Control Map



Proposed Vessel Transit Route

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OFFICIAL

SM-17-00000112

Aspect	Potential Environmental Impact	Initial Rating		Risk	Control Measures	Residual Rating		Risk	Management of Residual Risk
		C	L			C	L		
Waste	Any litter generated from the vessel operations can blown into the surrounding water ways	4	5	12	All waste generated onboard the vessel to be placed in the designed receptacle onboard. All waste to be disposed appropriately onshore at a suitable disposal point	5	6	2	Pre-start meetings prior to works beginning
Contamination	Potential for oil / fuel spills from plant / equipment	3	6	14	Ensure pre-start inspections are completed. Ensure scheduled maintenance is up to date. No fuelling or maintenance of vessel to be conducted onsite Spill containment / control kits to be used as required and be properly stocked Sydney Metro incident reporting procedure to be followed in the event of any spill or leaks from equipment and plant.	4	6	5	Pre-start meetings prior to works beginning
Hazardous Materials	No Hazardous materials to be onsite	6	6	1	Any fuel or chemical spills to be cleaned using appropriate spill kits and disposed according to their classification. Sydney Metro incident reporting procedure to be followed in the event of any spill or leaks from equipment and plant.	6	6	1	Pre-start meetings prior to works beginning
Biodiversity	Potential impact to marine benthic flora which placement of sed bed deployed equipment	4	4	13	Ensure equipment is placed in approved locations that contain no sensitive locations such as bare seabed locations as identified in previous site marine ecological assessments. Ensure Port Authority NSW Harbour Master Approval is gained prior to deployment of equipment	5	6	2	Pre-start meetings prior to works beginning
Traffic	Potential to impact commercial and recreational vessel traffic in the vicinity of deployed seabed equipment and proposed profiling	4	4	13	Ensure Port Authority NSW Harbour Master Approval is gained prior to deployment of equipment and notice mariners is issued detailed proposed works.	6	4	4	Pre-start meetings prior to works beginning Continually monitor vessel traffic

	locations through traffic having to divert from the area. Potential to impact pedestrian access to foreshore in vicinity of drone operations				Ensure Port Authority NSW vessel traffic control advises other vessel traffic or works being undertaken Ensure appropriate drone airspace approvals are in place Ensure appropriate signage is in place when drone operations are being undertaken Ensure drone with weight rating 6kg is used for the survey works. Sydney Metro incident reporting procedure to be followed in the event of any incidents Ensure Barangaroo Foreshore approvals are in place				Continually surrounding pedestrian traffic
Noise	Use of drone could cause limited nuisance noise to other foreshore users Workers behaviour could also increase noise impacts	5	2	7	Ensure appropriate drone airspace approvals are in place and conditions adhered to including limiting the weight of the drone used to >150Kg Ensure appropriate signage is in place when drone operations are being undertaken No shouting No Speakers or radios	6	3	6	Pre-start meetings prior to works beginning Regulate worker behaviour – no shouting or making loud noises
Vibration	No impacts from vibration	6	6	1	No foreseeable impacts from vibration – therefore no measures required	6	6	1	Pre-start meetings prior to works beginning
Air Quality	No impacts to air quality	6	6	1	No foreseeable impacts to air quality – therefore no control measures required	6	6	1	Pre-start meetings prior to works beginning
Heritage	Potential for Seabed mounted equipment to disturb marine heritage items	4	5	12	Ensure Port Authority NSW Harbour Master Approval is gained prior to deployment of equipment Consult relevant navigation charts to ensure equipment is not deployed on or in the near vicinity of any noted marine heritage items	6	6	1	Pre-start meetings prior to works beginning

Appendix 2: Environmental Management Documentation

Appendix 3: Community Notification.

Project update – Barangaroo Station

November 2024

Sydney Metro is Australia's biggest public transport project

Sydney Metro construction at Barangaroo station is nearing completion, including precinct and finishing work in the surrounding area.

From mid-November, BESIX Watpac will have completed its scope of works for the Barangaroo Station and will continue demobilising the site. This is the last monthly update we will issue to the community.

Thank you for your patience over the years while we created this new world-class station for the people of Sydney. We appreciate how challenging it can be to live and work during periods of major construction, and we really appreciate your support and understanding along the way.

If you have any feedback or enquiries about the remainder of the work, please continue to contact the Community Engagement Team at 1800 171 386 (a 24-hour community information line) or email barangroometrostation@transport.nsw.gov.au.

If you have any questions or comments on metro train or station operations, please use the feedback form at transportnsw.info.

Thank you again, and we hope you enjoy using your new metro.

Sydney Metro

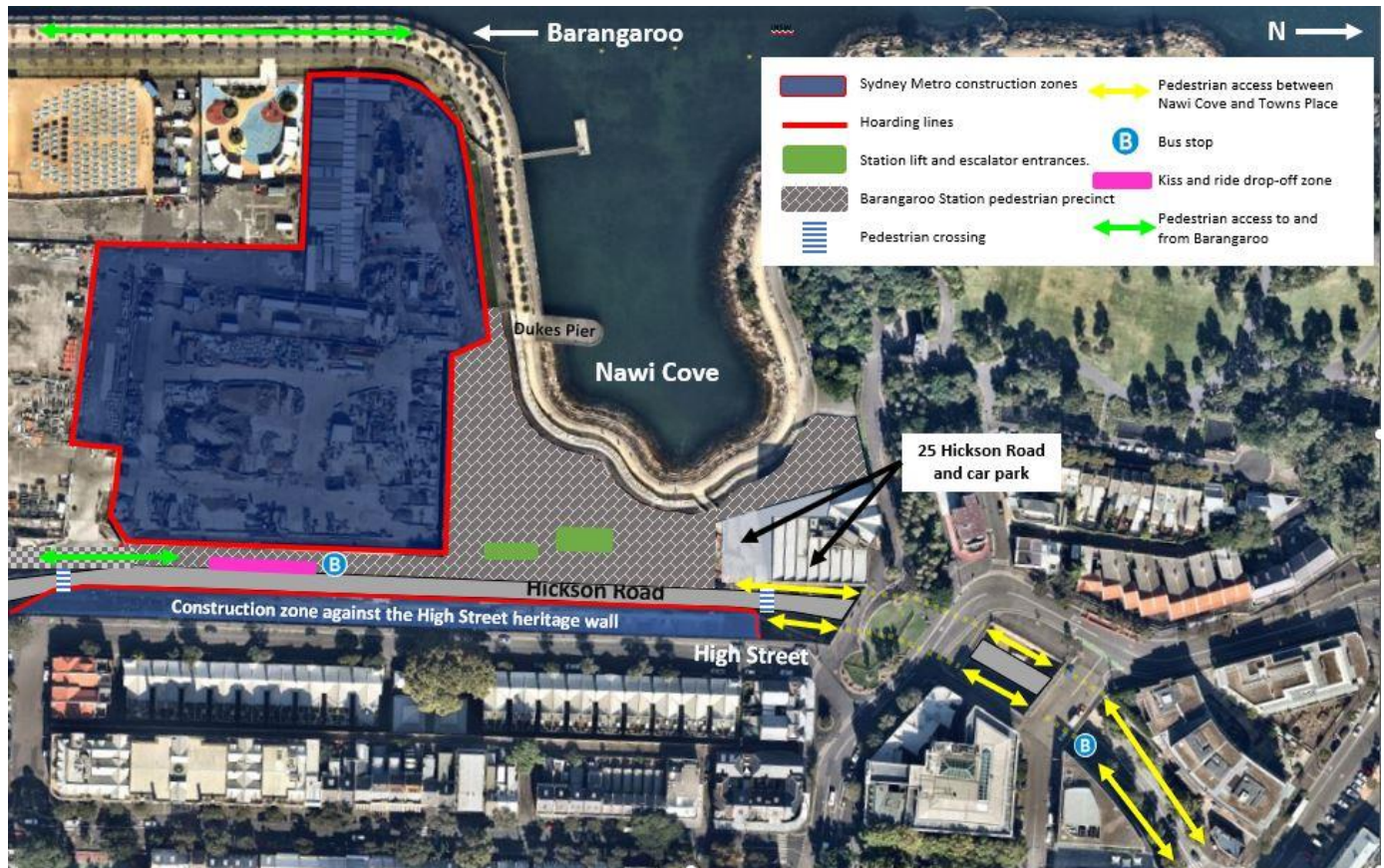
Barangaroo Station – upcoming work for November

BESIX Watpac is pleased to be close to finishing its work along the eastern side of Hickson Road and expects to hand over this last location in mid-November.

Location	Activities during standard construction hours
Hickson Road (between Windmill Street Bridge and High Steps)	• Cleaning and preparing to hand over the ventilation pods, bicycle lane and footpath on the eastern side of Hickson Road* • Demobilising the site compound including disconnecting services and removing site accommodation. Some of this work will involve the demolition of concrete slabs, which will be intermittently noisy. • Handing over the water treatment plant • Removing the remaining hoarding and fencing along the eastern side of Hickson Road. We expect this to occur in mid-November, and it will involve a single lane on Hickson Road for one day only. • Environmental monitoring from boats in the harbour, including using drones.

*Pedestrian access on Hickson Road along the heritage wall will remain closed until the handover. Alternative access remains available on the new footpath on the western side of Hickson Road.

Barangaroo Station – remaining work area



A final message from the BESIX Watpac team

As we approach the finishing line for constructing the Barangaroo Station and surrounding precinct works, we sincerely thank the local community for their enduring patience and understanding during the three years we have been here.

We are incredibly proud of the project and its legacy, and we hope that now that the station is open and we are leaving, the community will feel like it has all been worth it.

It has been our pleasure to get to know the local community during our time with you, and we wish you every success as you continue to live, work, and advocate for this unique corner of Sydney.

Thank you for your patience while we complete this essential work



1800 171 386 Community information line open 24 hours



sydneymetro@transport.nsw.gov.au



Sydney Metro City & Southwest, PO Box K659, Haymarket NSW 1240



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