



Southwest Metro Corridor and Bankstown Early Works Construction Monitoring Report 5 March 2023 - August 2023

SMCSWSSJ-JHL-WEC-EM-REP-000029

Document and Revision History

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Rev A	18/10/2023	Initial Issue	Zhengyi Zhang	Chris McCallum
Rev B	15/11/2023	Address ER and AA comments	Zhengyi Zhang	Chris McCallum

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Compliance Matrix

Condition	Requirement	Reference
C14	The results of the Construction Monitoring Programs must be submitted to the Planning Secretary, and relevant regulatory agencies, for information in the form of a Construction Monitoring Report at the frequency identified in the relevant Construction Monitoring Program.	Section 1.1

1. Introduction

The Construction Monitoring Program is being implemented to monitor impacts on surrounding surface water quality resources and impacts from noise and vibration on the surrounding areas during the construction phase. The surface water monitoring program and noise and vibration monitoring program are also both designed to assess the effectiveness of the mitigation measures applied as part of the Southwest Metro Corridor Works (SMC) and Bankstown Early Works (BEW). This is the 5th construction monitoring report, the reporting periods for each document are as follows:

1. Construction monitoring report 001 for the period of March 2021 – August 2021
2. Construction monitoring report 002 for the period of September 2021 – February 2022
3. Construction monitoring report 003 for the period of March 2022 – August 2022
4. Construction monitoring report 004 for the period of September 2022 – February 2023
5. Construction monitoring report 005 for the period of March 2023 – August 2023

These reports are to be prepared 6 monthly until the completion of the project or when JHLORJV are no longer undertaking works in established monitoring areas.

1.1. Submission Requirements

In accordance with condition C14, the CMR will be submitted to the following agencies for information:

- City of Canterbury Bankstown
- Inner West Council
- New South Wales (NSW) Environment Protection Authority (EPA)
- NSW Department of Planning and Environment (DPE) (Formerly DPIE)

The Independent Environmental Representative and Sydney Metro will review the report prior to submission.

1.2. Surface Water

The project site is located within the rail corridor on the T3 Bankstown line between Sydenham and Bankstown, NSW.

The Project site forms part of the overall Cooks River, Coxs Creek and Salt Pan Creek catchment areas. The water from the area discharges into these water catchments via local stormwater drainage or overland flow. The surrounding catchment areas are urbanised with a mix of residential, commercial, and industrial properties.

Water quality is measured on an ongoing basis for the wider Cooks River catchment by the *Environment, Energy and Science - NSW DPE* as part of the Beach watch programme. The monitoring point is at Kyeemagh Baths at the mouth of the Cooks River in Port Botany. Water quality within the Cooks River catchment is influenced by stormwater, fertilisers, industrial discharge and sewage contamination.

The EIS, referring to the Salt Pan Creek catchments, states “A number of beaches in the lower Georges River are monitored as part of Department of Planning Industry and Environment – Environment, Energy and Science’s (DPE-EES) Beachwatch program. The most recent State of the Beaches annual report noted that these locations were graded as ‘good’, meaning that the quality of the water was appropriate for swimming most of the time”. It is noted however that the catchment is impacted by development, including construction impacts

and litter, as well as other influences such as wastewater overflows and a landfill operation.

Please refer to the Construction Soil and Water Management Plan for further information on surface water within the project area.

Objectives for water quality management during construction are:

- Minimise pollution of surface water through appropriate erosion and sediment control
- Maintain existing water quality of surrounding surface watercourses

1.3. Noise and Vibration

The area surrounding the SMC project contains a variety of land-use types and receivers, including residential receivers, commercial, industrial, sensitive non-residential receivers. These land-uses are mixed within the identified noise catchments, though in general there are clusters of industrial and commercial areas surrounding stations, and primarily residential areas between stations. The area surrounding the project is affected by rail noise and vibration.

Majority of the works will occur within the rail corridor between stations, works will mainly occur adjacent to residential properties.

There are a number of sensitive non-residential receivers identified within the vicinity of the project works. The full list of receivers can be found within the CNVIS (SMCSWSSJ-JHL-WEC-EM-REP-000011-Construction Noise and Vibration Impact Statement-Rev04) A summary of the sensitive receivers are;

- 17 Childcare and Early Learning Centres
- 25 Primary and High Schools
- 24 Hospitals, Medical Centres, clinics and Aged Care Facilities
- 23 Places of Worship

Objectives for noise and vibration management on the project are:

- Minimise unreasonable noise and vibration impacts on residents and businesses
- Avoid cosmetic damage to buildings or heritages items as a result of construction vibration
- Maintain positive, co-operative relationships with schools, childcare centres, local residents and building owners, and undertake active community consultation

Construction noise levels for some SMC activities are expected to exceed the external noise management level at times, particularly during works outside of standard hours, resulting in noise impacts to outdoor spaces. Internal and external noise levels will be assessed as part of the Out of Hours Works (OOHW) protocol and monitored accordingly.

2. Methodology

2.1. Surface Water

Surface water quality monitoring is undertaken in accordance with the Water Quality Monitoring Programme within the Construction Soil and Water Management Plan (refer to Section 7).

The water quality monitoring methodology as stated within the CSWMP is as follows;

“Following rain events of greater than 20mm in a 24-hour period, JHLOR will undertake post rainfall inspections of monitoring locations to determine if there is any change in water quality post a significant first flush. An ‘event’ is defined as the first 20mm rainfall event within a 24-hour period. In the case of multiple consecutive events, only the first will be monitored. Monitoring will

resume after a seven-day period of no rain. Visual inspections will include the following monitoring parameters:

- Water clarity and colour
- Odour
- Description of flow and quantity
- Oil and Grease determination
- Details of any foreign objects within the water, and
- Visible runoff (into the water body)

JHLOR will maintain a record of the inspections (including photographs) within the SMC Project drive.

Where water quality issues are visibly observed JHLOR will investigate further to determine if the source of the issue is related to JHLOR construction activities (where possible, noting safe access limitations). The JHLOR Environmental Manager or delegate will discuss changes in water quality associated with Construction with the JHLOR Construction Team to determine if further controls may be implemented, noting that any controls must be feasible and reasonable.

Once works in a particular area have been completed and any disturbed ground (from the works) reinstated to a suitable condition the associated monitoring within the particular area will cease.

It is noted that post-rainfall inspections within 24 hours of some drainage crossings and outlets may not be possible in some circumstances, including:

- Where there are safety concerns, or access is restricted due to rail safe working requirements
- Where erosion and sediment controls prevent access to an outlet and removing those controls would present a risk to water quality (e.g. removing drain guards).

Weather monitoring will be conducted using data from the Canterbury Racecourse weather station, accessed via the bureau of Meteorology website (<http://www.bom.gov.au>).

Water quality monitoring locations are included within Appendix F of the CSWMP. Canterbury Racecourse BOM weather observations were used to determine the amount of rainfall in a 24hr period, forming the basis of when monitoring occurred.

Pre-construction (baseline) monitoring was undertaken prior to the start of Construction in late March 2021, noting that works did not commence across the entire project site in March. The baseline for water quality monitoring was updated with two extra sites (eastern-side canterbury compound and BEW) during May and September of 2021. Monitoring was undertaken during dry conditions (no rainfall within the last 24hrs). Pre-construction monitoring was undertaken with the same visual and qualitative approach as described above.

The results of the Construction Water Quality Monitoring Programme are included in Section 3.

There are currently no active sediment basins on the project, and none have been identified during the construction phase of the project to date.

2.2. Surface Water Baseline Data

One baseline monitoring inspection was conducted in March 2021 (02/03/2021) and updated with 2 additional locations including and Canterbury compound (14/04/2021 – see **Figure 1**) and BEW (10/09/2021 – see **Figure 2**). Refer to **Table 1** for a summary.



Figure 1 - Canterbury Compound (water quality location 8)

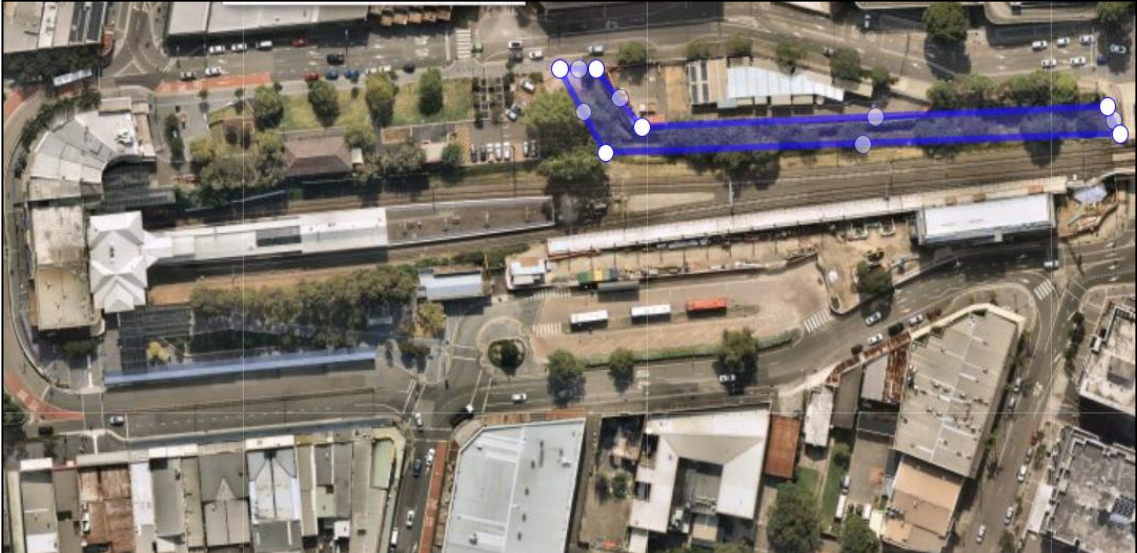


Figure 2 - Bankstown early works (water quality location 9)

Table 1 - Surface Water Monitoring Baseline

Date	Total Rainfall (mm)	Rainfall Event (hours)	Adverse Impacts relating to JHLOR works recorded	Monitoring Location Checklist	Notable Observations	Observations relating to JHLOR impacts	Follow up actions with construction team
03/2021	0	0 (dry weather baseline)	No	<ul style="list-style-type: none"> Location 1 Dulwich Hill Location 2 Hurlstone Park Location 3 West Bank of Cooks River Location 4 Belmore Triangle Location 5 Lakemba Location 6 Wiley Park Location 7 Punchbowl 	<p>Ewart St, Dulwich Hill: Turbid water entering from side tributary into D/S side of rail culvert – no JHLOR works in area. Unknown source.</p> <p>General – low flows and litter.</p>	None	N/A
05/05/2021	86.4	72	No	<ul style="list-style-type: none"> Location 1 Dulwich Hill Location 2 Hurlstone Park Location 3 West Bank of Cooks River Location 4 Belmore Triangle Location 5 Lakemba Location 6 Wiley Park Location 7 Punchbowl Location 8 Canterbury Compound (First Inspection) 	<p>Ewart St, Dulwich Hill: Turbid water entering from side tributary into D/S side of rail culvert – no JHLOR works in area. Unknown source.</p> <p>Close Street, Canterbury: turbid water observed coming from upstream. No inflow from compound area</p>	None	N/A
14/10/2021	31.8	48	No	<ul style="list-style-type: none"> Location 1 Dulwich Hill Location 2 Hurlstone Park Location 3 West Bank of Cooks River Location 4 Belmore Triangle Location 5 Lakemba Location 6 Wiley Park Location 7 Punchbowl Location 8 Canterbury Compound Location 9 Bankstown (First Inspection) 	<p>Ewart St, Dulwich Hill: Small side tributary (LHS) – source of upstream brown cloudiness/dirty water unknown other than Council Contactor works under Ness St bridge. – no JHLOR works in area.</p> <p>Hurlstone Park: JHLOR installing engineered earth ramp upstream from culvert. Controls in place and ramp structure stabilised with “little” sign of scour flowing into heavily vegetated area (upstream of culvert).</p> <p>Wiley Park: Station Contractor works near culverts. Pre-construction baseline inspections and early Construction period inspections indicate turbid water within this drain at times. No indication SM works causing turbidity.</p> <p>Canterbury Compound: turbid/cloudy water observed in creek. No JHLOR works.</p>	None	N/A

2.3. Noise and Vibration monitoring

As part of the Noise and Vibration Assessment within the Sydney Metro Sydenham to Bankstown Upgrade Environmental Impact Statement, the area surrounding the entire Project site was divided into 13 Noise Catchment Areas (NCAs). SMC works occur across all 13 NCA's depending on where works will reside, there are some locations where works are more consistent than others. Noise monitoring was undertaken in 2016 to determine the Rating Background Level for the 13 noise catchments. The Rating Background Levels for all NCAs are shown in **Table 2**.

Table 2 - RBLs for SSJ Noise Catchment Areas

NCA	Daytime RBL(7am to 6pm)	Evening RBL (6pm to 10pm)	Night RBL (10pm to 7am)
1	38	38	33
2	38	38	33
3	38	38	34
4	40	40	35
5	36	36	32
6	45	42	35
7	41	41	35
8	47	47	41
9	44	44	36
10	47	47	41
11	47	47	39
12	54	51	42
13	42	42	39

Based on planned work in the construction phase, impacts were largely spread across the noise catchments.

Figure 3 below shows the noise catchment boundaries across the project.

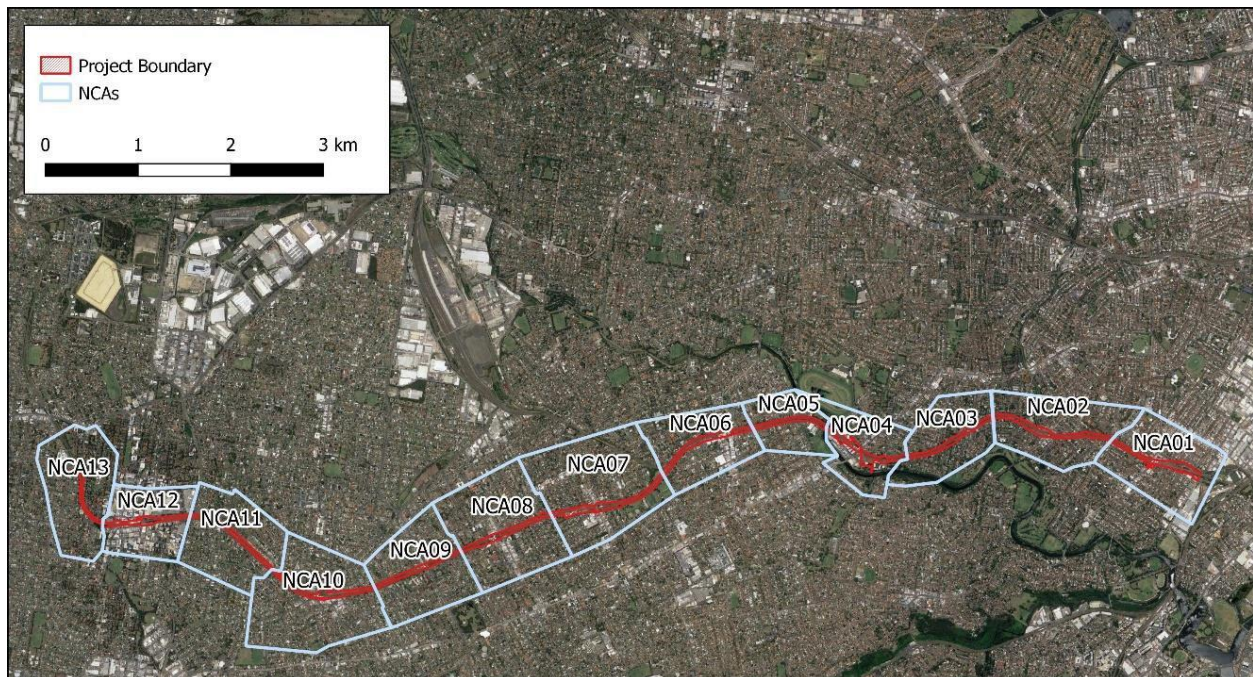


Figure 3 – Sydenham to Bankstown Noise Catchment Areas

Monitoring is undertaken during construction activities (including out of hours works) where required in accordance with Section 8 of the CNVS and for validation purposes. Attended noise monitoring is undertaken in the event of a noise complaint. Where a complaint occurs, monitoring will be undertaken at the complainant's property, nearest to any work.

Vibration monitoring will be undertaken before and during works where buildings or structures exist within the safe work distances of vibratory plant. Monitoring will also be undertaken where vibration generating activities have the potential to impact on heritage items. Monitoring will be undertaken for vibration causing “activities” at a structure and applied as indicative across the project area in similar circumstances (e.g. the methods and plant used for the compaction of batters is consistent across the site, as such the monitoring at one structure is representative of the impacts at other structures). Representative monitoring should be undertaken at the most sensitive structure for which it is to be applied. In accordance with the requirements of the CNVS, the vibration limits have been set out in the British Standard BS 7385-2:1993.

3. Results

3.1. Surface Water

Water quality monitoring inspections were undertaken four times during this reporting period. These occurred between on the 14th of March 2022 and 1st of May 2023.

The following monitoring inspections were undertaken during the reporting period (Result surmised in **Table 3**):

- Rain Event on the 14/03/2023, 24.4mm rainfall during inspection, no adverse impacts identified during the period;
- Rain Event on the 02/04/2023 – 03/04/2023, 44.2mm rainfall during inspection, no adverse impacts identified during the period;
- Rain Event on the 14/04/2023, 30.6mm rainfall during inspection, no adverse impacts identified during the period;
- Rain Event on the 01/05/2023, 28.4mm rainfall during inspection, no adverse impacts identified during the period;

Full monitoring inspections, including commentary and photographs are maintained on the JHLOR Project Drive. These are available upon request. See **Appendix A** for a sample water monitoring report. Where monitoring indicates adverse impacts associated with JHLOR works this Section of the CMR will explore the details and corrective actions in detail.

Table 3 – Summary of result - Surface Water Monitoring undertaken during the CMR5 reporting period

Date	Total Rainfall	Adverse Impacts	Monitoring Location Checklist	Notable Observations	Observations	Follow up actions
14/03/2023	24.4 mm	No adverse impacts relating to JHLOR works recorded	Location 1 Dulwich Hill	No JHLOR works, ERSED Controls in place, Turbid water from side inlet on LHS, Unknown source. Station Contractor's - clean water flowing in from black pipe on RHS	None relating to JHLOR impacts	N/A
			Location 2 Hurlstone Park	NO PO AVAILABLE – AREA NOT INSPECTED , No JHLOR works, ERSED Controls in place		
			Location 3 West Bank of Cooks River	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor		
			Location 4 Belmore Triangle	JHLOR Stockpiling area, NO PO AVAILABLE – AREA NOT INSPECTED , ERSED Controls in place		
			Location 5 Lakemba	No JHLOR works. Not checked on Downstream due to the drainage network is below ground. Other contractor was working Upstream during inspection. Upstream observed to have low turbidity and Total Suspension Solid (TSS)		
			Location 6 Wiley Park	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor. Small inlet from the RHS of the Western most culverts – turbid water flowing into culver. Unknown upstream source but seeping from concrete GLT/ toe of vegetated batter. No oil & grease. No odour		
			Location 7 Punchbowl	This flow line is below ground and runs across the corridor from North to South and can be seen through pits located within corridor only. NO PO AVAILABLE – AREA NOT INSPECTED – No JHLOR works in catchment		
			Location 8 Canterbury Compound	JHLOR compound, ERSED Controls in place, No sign of dirty water from corridor		
			Location 9 Bankstown	No construction work on culvert side. JHLORJV works occurring here. ERSED controls in place, effective and maintained. No sign of dirty water from corridor		
02-03/04/2023	44.2 mm	No adverse impacts relating to JHLOR works recorded	Location 1 Dulwich Hill	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor	None relating to JHLOR impacts	N/A
			Location 2 Hurlstone Park	NO PO AVAILABLE – AREA NOT INSPECTED , No JHLOR works, ERSED Controls in place		
			Location 3 West Bank of Cooks River	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor		
			Location 4 Belmore Triangle	JHLOR Stockpiling area, NO PO AVAILABLE – AREA NOT INSPECTED , ERSED Controls in place		
			Location 5 Lakemba	No JHLOR works. Not checked on Downstream due to the drainage network is below ground. Other contractor was working Upstream during inspection. Upstream observed to have low turbidity and Total Suspension Solid (TSS)		
			Location 6 Wiley Park	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor. Small inlet from the RHS of the Western most culverts – turbid water flowing into culver. Unknown upstream source but seeping from concrete GLT/ toe of vegetated batter. No oil & grease. No odour		
			Location 7 Punchbowl	This flow line is below ground and runs across the corridor from North to South and can be seen through pits located within corridor only. NO PO AVAILABLE – AREA NOT INSPECTED – No JHLOR works in catchment		
			Location 8 Canterbury Compound	JHLOR compound, ERSED Controls in place, No sign of dirty water from corridor		
			Location 9 Bankstown	No construction work on culvert side. JHLORJV works occurring here. ERSED controls in place, effective and maintained. No sign of dirty water from corridor		
14/04/2023	30.6 mm	No adverse impacts relating to JHLOR works recorded	Location 1 Dulwich Hill	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor	None relating to JHLOR impacts	N/A
			Location 2 Hurlstone Park	NO PO AVAILABLE – AREA NOT INSPECTED , No JHLOR works, ERSED Controls in place		
			Location 3 West Bank of Cooks River	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor		
			Location 4 Belmore Triangle	JHLOR Stockpiling area, ERSED Controls in place, No sign of dirty water from corridor		
			Location 5 Lakemba	No JHLOR works. Not checked on Downstream due to the drainage network is below ground. Other contractor was working Upstream during inspection. Upstream observed to have low turbidity and Total Suspension Solid (TSS)		
			Location 6 Wiley Park	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor. Small inlet from the RHS of the Western most culverts – turbid water flowing into culver. Unknown upstream source but seeping from concrete GLT/ toe of vegetated batter. No oil & grease. No odour		
			Location 7 Punchbowl	This flow line is below ground and runs across the corridor from North to South and can be seen through pits located within corridor only. NO PO AVAILABLE – AREA NOT INSPECTED – No JHLOR works in catchment		
			Location 8 Canterbury Compound	JHLOR compound, ERSED Controls in place, No sign of dirty water from corridor		
			Location 9 Bankstown	No construction work on culvert side. JHLORJV works occurring here. ERSED controls in place, effective and maintained. No sign of dirty water from corridor		

Date	Total Rainfall	Adverse Impacts	Monitoring Location Checklist	Notable Observations	Observations	Follow up actions
01/05/2023	28.4 mm	No adverse impacts relating to JHLOR works recorded	Location 1 Dulwich Hill	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor	None relating to JHLOR impacts	N/A
			Location 2 Hurlstone Park	NO PO AVAILABLE – AREA NOT INSPECTED , No JHLOR works, ERSED Controls in place		
			Location 3 West Bank of Cooks River	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor		
			Location 4 Belmore Triangle	JHLOR Stockpiling area, NO PO AVAILABLE – AREA NOT INSPECTED , ERSED Controls in place		
			Location 5 Lakemba	No JHLOR works. Not checked on Downstream due to the drainage network is below ground. Other contractor was working Upstream during inspection. Upstream observed to have low turbidity and Total Suspension Solid (TSS)		
			Location 6 Wiley Park	No JHLOR works, ERSED Controls in place, No sign of dirty water from corridor. Small inlet from the RHS of the Western most culverts – turbid water flowing into culver. Unknown upstream source but seeping from concrete GLT/ toe of vegetated batter. No oil & grease. No odour		
			Location 7 Punchbowl	This flow line is below ground and runs across the corridor from North to South and can be seen through pits located within corridor only. NO PO AVAILABLE – AREA NOT INSPECTED – No JHLOR works in catchment		
			Location 8 Canterbury Compound	JHLOR compound, ERSED Controls in place, No sign of dirty water from corridor		
			Location 9 Bankstown	No construction work on culvert side. JHLORJV works occurring here. ERSED controls in place, effective and maintained. No sign of dirty water from corridor		

3.2. Noise and Vibration Monitoring

3.2.1. Noise Monitoring

Attended noise monitoring was undertaken as required for OOHW and possessions, where noise modelling predicted significant exceedance of Rating Background Levels (RBL) or otherwise required validation using this method.

Continuous noise monitoring was undertaken for OOHW and possessions. They were located at the locations with the highest risk of noise exceedance of RBL as established by the JHLOR noise models, detailed monitoring locations can be found in **Appendix B – Noise Monitoring Report**.

These noise monitoring methods have been conducted for activities with significant predicted exceedances of noise management levels, mostly occurring where works are conducted in the evening or night-time periods. SMC have committed to review impacts and mitigation of construction activity and document outcomes where an exceedance is recorded or a complaint is made related to project construction activities.

The following noise monitoring event were undertaken for the below Out-of-hour works (OOHW):

- OOHW carried out over 6th and the 7th of March 2023 in Week 36 Possession (WE36) over 2 nights which included milling asphalt on existing hi-rail pad. Works carried out under condition L5.6- Local Possessions
- OOHW carried out on the 15th and 16th of April 2023 during the Weekend 42 Possession (WE42) over 2 days and 1 night (single activity at Stacey St) and 21st to 23rd of April 2023 during the Weekend 43 Possession (WE43) over 3 days. Works carried out under condition L5.6- Local Possessions
- OOHW carried out on 6th and 7th of May during Weekend 45 Possession (WE45) over 2 days and 1 night. Works carried out under condition L5.6- Local Possessions
- OOHW carried out on 20th and the 21st of May during Weekend 47 Possession (WE47) over 2 days and 1 night. Works carried out under condition L5.6- Local Possessions
- OOHW carried out between 6th and 16th of July during July Shut. Works carried out under condition L5.6- Local Possessions
- OOHW carried out between 1st and 3rd of August 2023 over three nights. Utility Works carried out under condition L5.7 – Local Area and Utility Works.
- OOHW carried out on 26th and the 27th of August during Weekend 09 Possession (WE09) over 2 days and 1 night. Works carried out under condition L5.6- Local Possessions

Detailed noise monitoring results are attached in **Appendix B**. Throughout the works carried out over the reporting period (March to August 2023), there were no exceedances of the noise predictions as a result of construction activity. Actual noise (LAeq 15min) data was collected at the monitoring location and assessed for exceedances.

As part of the noise monitoring, significant extraneous noise has been recorded as impacting receivers and monitoring results, including throughout the night-time period, well above the given RBLs. Monitoring locations and timing has been adjusted where necessary to try to isolate construction impact, however this is often not feasible. Common extraneous noise sources include:

- Noise from passing freight trains on the ARTC line

- Road traffic, particularly rail replacement buses during rail possessions

3.2.2. Vibration

As per the Construction Noise and Vibration Impact Statement, real time vibration monitoring is conducted when the works are predicted to exceed the building cosmetic damage vibration goals and/or human comfort vibration goals. No works throughout this reporting period indicated the need for vibration monitoring

To date, there has been no exceedances of vibration from construction activities, and recorded vibration (PPV in mm/s) has been well below cosmetic vibration limits for affected structures. As above, attended noise and vibration monitoring has identified that external non-construction noise and vibration sources are frequent in the areas, which is also expected to reflect in the results of any real-time continuous monitoring

Vibration monitoring was not required throughout this reporting period.

3.2.3. Complaints

There were two (2) complaints throughout this reporting period. Both of the complaints were noise complaints which were found to be attributed to JHLORJV works.

1. 05/06/2023 Marrickville – Construction noise – Caller advising that she lives right near Livingstone Rd, there is ongoing work going on at the bridge. Nearest cross Street is Marrickville Ave. Caller advised there is a generator that is at the site that runs all day. Caller requesting to know how long the bridge work will go on for, and if there is anything that can be done to minimize the sound of the generator.

Feedback from site indicates use of a small portable generator for an electric Kango jackhammer. A prestart topic related to this complaint is to be discussed at the next prestart meeting.

Equipment is currently not being use as it is used occasionally. Generator to be switched off when not in use. For future use the equipment will be positioned within noise attenuation barriers/behind timber hoarding or walled area. The above mitigation measures to be checked by Supervisors, Comms and Enviro during their regular inspections.

JHLOR Community Manager contacted Elizabeth and apologised for the noise. He has advised that for future works the equipment will be enclosed by noise attenuation barriers/curtains. Resident acknowledged that they had received notice of the works being undertaken and this noise was during standard constructions hours. Spot checks to be carried out during inspections during the coming weeks to make sure they are using the noise mitigation. Advised as per program that current works are due to be complete by 23rd of June.

2. 15/08/2023 Campsie – Construction noise – Complainant called to complain about construction noise associated with non-destructive digging (NDD) activities in the rail corridor adjacent to residency.

Environmental Advisor investigated the complaint. Works commenced at 08:00. 1 hour respite was intended to be take at 11:00, however due to complaint respite occurred early at 10:20. works recommenced at 11:20. Noise monitoring occurred once works resumed at the façade of the complainant ~60m from noise source. The noise impact was measured to be LAeq15min 63dB. Noise monitoring was also undertaken during the respite period and was found to be LAeq15min 56dB. The complainant was not high noise affected.

The Community Manager called the complainant and advised that works were within licence and not consider as High Noise Impact Work (predicted and actual).

Resident was happy with response and understood that works needed to occur. Just wanted

to know if works were planned for rest of the week. The complainant was advised that works were only occurring 15/08/2023.

4. Mitigation Measures

4.1. Noise and Vibration

Standard mitigation measures as applicable were implemented as per Section 7 of the Construction Noise and Vibration Management Plan, and Sections 6.2 and 6.4 of the Construction Noise and Vibration Impact Statement. These were effective during the reporting period.

4.2. Water

Standard mitigation measures were implemented as per Section 6 of the Construction Soil and Water Management Plan. A new area-checklist is completed for every new area JHLORJV works is planning to commence in. This considers existing ERSED issues and assists in the developing of ERSED control plans. Controls were, identified, installed and repaired as required throughout this reporting period.

5. Conclusion

Pre-construction surface water monitoring began in March 2021, with results showing several instances of poor water quality due to detritus and turbidity. Monitoring during the March 2023 – August 2023 period indicated no adverse impacts associated with JHLOR activities.

Erosion-sediment control plans are maintained and reviewed regularly, and JHLOR conducts weekly and post rain environmental inspections. The Environment Representative also conducts bi-weekly inspections, and any observations are closed out within agreed timeframes.

Monitoring records have validated modelled noise and are consistent with the predicted impact of construction activities on noise catchment areas, including sensitive receivers. No exceedances of noise were measured associated with JHLORJV construction works.

Appendix A – Sample of Water Monitoring Report

WMC and BEW. Water Quality - Environmental Condition Surveys (CoA C8b)

Inspection type	Rain Event 14/03/2023(#28)
Rainfall (in previous 24hrs)	24.4 mm during Day by 13:30
Inspection by	Andre Kruize & Ted Zhang
Date(s) of inspection	14/03/23 between 12:30 and 15:00
Other general notes	Cant Compound - Rain data, inspection and photos were taken through the corridor during the inspection


Weather data from Canterbury Weather Station.

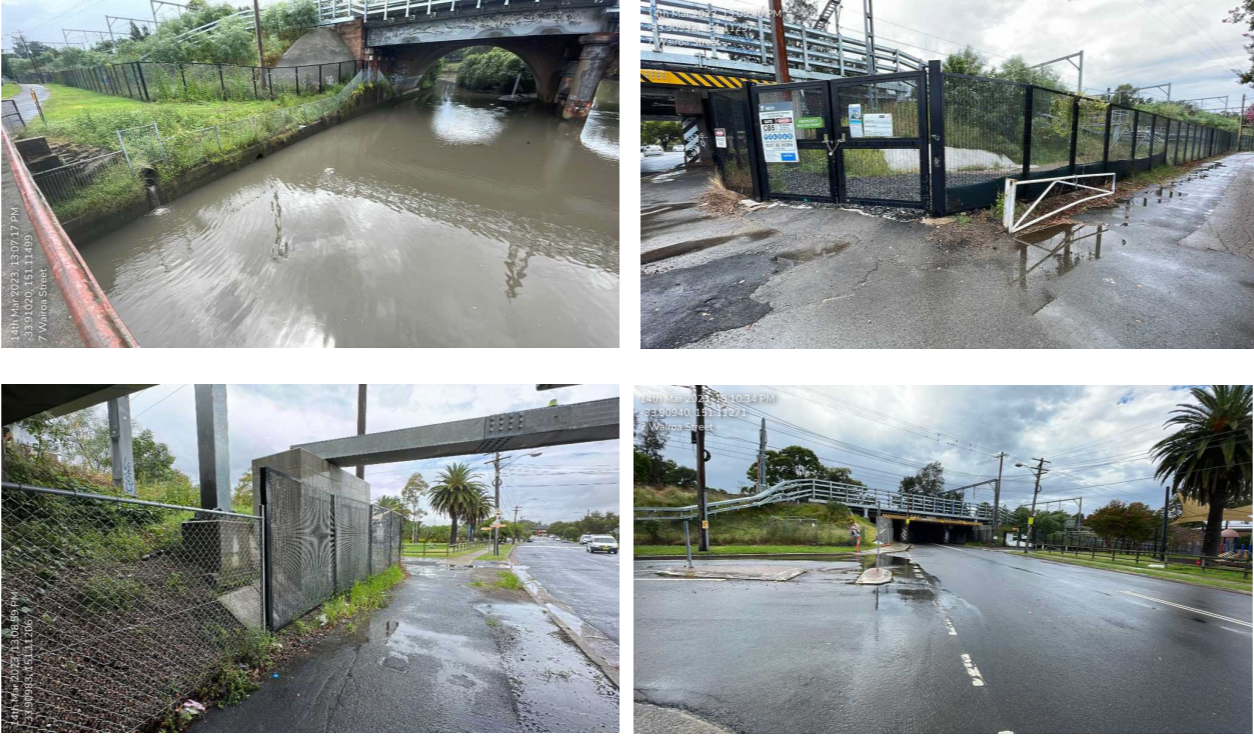

Latest Weather Observations for Canterbury
 IDN50801
 Issued at 1:53 pm EDT Tuesday 14 March 2023 (issued every 10 minutes, with the page automatically refreshed every 10 minutes)
 Station Details ID: 066194 Name: CANTERBURY RACECOURSE AWS Lat: -33.91 Lon: 151.11 Height: 3.0 m
 Data from the previous 72 hours. | See also: [Recent months at Canterbury](#)




Date/Time	Temp °C	App Temp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press hPa	Press MSL hPa	Rain since 9am mm
						Dir	Spd km/h	Gust km/h	Spd km/h	Gust km/h			
14/01:30pm	22.9	25.9	21.2	90	1.1	SE	7	13	4	7	-	-	24.4
14/01:00pm	21.3	24.0	20.6	96	0.5	E	7	9	4	5	-	-	24.4
14/12:50pm	21.1	23.4	20.6	97	0.3	ENE	9	11	5	6	-	-	24.2
14/12:30pm	20.6	22.3	20.1	97	0.3	ENE	11	20	6	11	-	-	23.6
14/12:09pm	20.6	22.4	20.3	98	0.2	E	11	15	6	8	-	-	22.2
14/12:00pm	20.6	23.1	20.3	98	0.2	ENE	7	11	4	6	-	-	21.6
14/11:48am	20.4	22.8	20.1	98	0.2	ENE	7	11	4	6	-	-	21.6
14/11:30am	19.9	20.8	19.2	96	0.4	NE	13	24	7	13	-	-	21.2
14/11:18am	20.5	22.8	19.8	96	0.4	SE	7	13	4	7	-	-	15.4
14/11:00am	20.6	22.3	20.1	97	0.3	E	11	17	6	9	-	-	14.8
14/10:57am	20.6	22.3	20.1	97	0.3	E	11	17	6	9	-	-	14.6
14/10:30am	20.5	20.8	19.7	95	0.5	E	17	26	9	14	-	-	11.8
14/10:00am	21.0	24.8	20.2	95	0.5	CALM	0	4	0	2	-	-	6.0
14/09:30am	20.6	21.3	18.9	90	1.1	ESE	13	20	7	11	-	-	2.2
14/09:28am	20.9	21.7	19.0	89	1.2	ESE	13	20	7	11	-	-	1.4
14/09:00am	21.7	24.5	19.6	88	1.3	SE	4	7	2	4	-	-	2.0
14/08:30am	21.1	24.4	19.0	88	1.3	CALM	0	0	0	0	-	-	2.0
14/08:00am	20.4	22.6	19.1	92	0.8	ESE	6	9	3	5	-	-	2.0
14/07:30am	20.0	21.6	18.3	90	1.1	E	7	13	4	7	-	-	2.0
14/07:00am	19.9	21.7	19.6	98	0.2	SE	9	13	5	7	-	-	2.0
14/06:30am	19.5	22.7	18.8	96	0.4	CALM	0	0	0	0	-	-	2.0
14/06:00am	19.8	22.5	18.6	93	0.7	E	2	7	1	4	-	-	1.6
14/05:30am	20.1	21.8	18.6	91	0.9	E	7	13	4	7	-	-	1.0
14/05:00am	20.3	21.9	19.1	93	0.6	ENE	9	13	5	7	-	-	0.6
14/04:30am	19.2	22.2	18.4	95	0.5	CALM	0	0	0	0	-	-	0.6
14/04:00am	18.9	21.5	17.6	92	0.8	CALM	0	0	0	0	-	-	0.2
14/03:30am	18.9	20.3	17.4	91	0.9	NW	6	9	3	5	-	-	0.2
14/03:00am	19.0	21.3	16.8	87	1.3	CALM	0	0	0	0	-	-	0.0
14/02:30am	18.8	21.0	16.4	86	1.4	CALM	0	0	0	0	-	-	0.0
14/02:00am	18.9	20.9	16.1	84	1.7	CALM	0	0	0	0	-	-	0.0
14/01:30am	19.4	21.5	16.2	82	1.9	CALM	0	0	0	0	-	-	0.0
14/01:00am	19.5	21.4	15.8	79	2.2	CALM	0	0	0	0	-	-	0.0
14/12:30am	20.1	20.8	15.5	75	2.7	SE	6	9	3	5	-	-	0.0
14/12:00am	20.2	20.7	15.6	75	2.7	SE	7	11	4	6	-	-	0.0





Date/Time EDT	Temp °C	App Temp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press hPa	Press MSL hPa	Rain since 9am mm
						Dir	Spd km/h	Gust km/h	Spd km/h	Gust km/h			
13/11:30pm	20.2	20.6	15.2	73	2.9	ESE	7	9	4	5	-	-	0.0
13/11:00pm	20.1	20.6	14.9	72	3.0	ESE	6	9	3	5	-	-	0.0
13/10:30pm	20.5	20.6	14.4	68	3.6	ESE	7	15	4	8	-	-	0.0
13/10:00pm	20.7	20.3	14.1	66	3.8	ESE	9	15	5	8	-	-	0.0
13/09:30pm	21.2	20.4	14.1	64	4.1	E	11	19	6	10	-	-	0.0
13/09:00pm	22.0	21.0	14.6	63	4.4	E	13	19	7	10	-	-	0.0
13/08:30pm	22.0	21.1	14.9	64	4.2	ESE	13	22	7	12	-	-	0.0
13/08:00pm	22.0	21.0	15.6	67	3.8	E	15	20	8	11	-	-	0.0
13/07:30pm	21.7	20.9	16.0	70	3.4	SE	15	20	8	11	-	-	0.0
13/07:00pm	21.9	21.2	15.5	67	3.8	ESE	13	17	7	9	-	-	0.0
13/06:30pm	22.1	21.0	15.2	65	4.1	ESE	15	22	8	12	-	-	0.0
13/06:00pm	22.4	20.2	14.3	60	4.7	ESE	19	28	10	15	-	-	0.0
13/05:30pm	23.0	21.3	14.6	59	5.0	ESE	17	24	9	13	-	-	0.0
13/05:00pm	22.9	21.2	14.7	60	4.8	SE	17	26	9	14	-	-	0.0
13/04:30pm	23.3	21.7	15.1	60	4.9	SE	17	32	9	17	-	-	0.0
13/04:00pm	22.5	22.3	16.8	70	3.5	S	13	19	7	10	-	-	0.0
13/03:30pm	21.2	21.3	16.4	74	2.9	SSW	11	19	6	10	-	-	0.0
13/03:00pm	22.0	21.0	15.6	67	3.8	SE	15	33	8	18	-	-	0.0
13/02:30pm	23.4	22.0	14.4	57	6.3	SE	15	24	8	13	-	-	0.0
13/02:00pm	23.3	21.6	14.6	58	6.1	SE	17	24	9	13	-	-	0.0
13/01:30pm	23.4	21.1	14.7	58	6.2	SE	20	28	11	15	-	-	0.0
13/01:00pm	23.6	20.5	14.6	57	6.3	SE	24	32	13	17	-	-	0.0
13/12:30pm	23.9	21.9	15.4	59	5.1	SE	20	28	11	15	-	-	0.0
13/12:00pm	23.1	20.1	14.7	59	6.0	SE	24	33	13	18	-	-	0.0
13/11:30am	23.6	21.6	15.4	60	4.9	ESE	20	32	11	17	-	-	0.0
13/11:00am	22.6	20.3	15.7	65	4.1	ESE	22	37	12	20	-	-	0.0



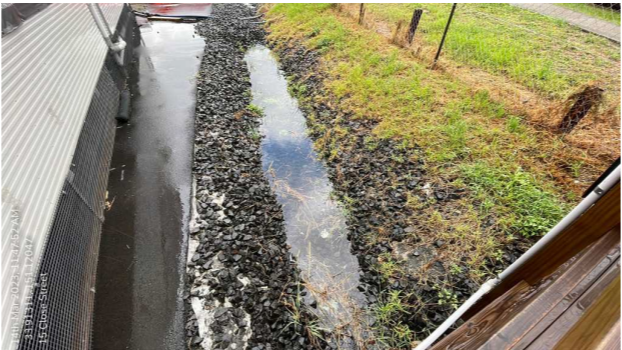
Date/Time EDT	Temp °C	App Temp °C	Dew Point °C	Rel Hum %	Delta-T °C	Wind					Press hPa	Press MSL hPa	Rain since 9am mm
						Dir	Spd km/h	Gust km/h	Spd km/h	Gust km/h			
13/10:30am	22.4	19.3	15.7	66	4.0	SE	26	33	14	18	-	-	0.0
13/10:00am	22.4	20.2	16.0	67	3.9	SE	22	33	12	18	-	-	0.0
13/09:30am	21.6	21.2	17.2	76	2.7	SE	15	24	8	13	-	-	0.0
13/09:00am	19.5	20.7	18.2	92	0.8	S	9	15	5	8	-	-	5.0




Inspection Type:	JHLOR Construction Activities in area	Comments from Inspection of waterways	Photos	Additional Observations Are there any impacts related to JHLOR construction works	Follow up action required	Outcome of follow up action
<p>Location 1</p> <p>Dulwich Hill, country side, near commuter car park</p>	<p>No work up at Ewart St</p>	<p>Water clarity and colour: Water in main culvert is slightly turbid</p> <p>Turbid water from side inlet on LHS. No JHLOR works in the area or up at Ewart St. Unknown source.</p> <p>Station Contractor's - clean water flowing in from black pipe on RHS</p> <p>Odour: Nil</p> <p>Description of flow and quantity/ Visible runoff (into the water body): High flow of water. Visual signs of high flow – riparian vegetation is bent over.</p> <p>Oil and Grease: Nil</p> <p>Details of any foreign objects within the water: Nil</p> <p>Other comments/description: N/A</p>	 <p>14th Mar 2023, 12:40:56 PM -33.91037, 151.13867 94 Ewart Street</p> <p>14th Mar 2023, 12:40:56 PM -33.91037, 151.13867 94 Ewart Street</p>	<p>Vegetation cleared from open channel by others.</p> <p>No JHLOR works up at Ewart St since WE32 works (5 weeks ago)</p> <p>No sign of dirty water flow from corridor, up at Ewart St. Access points stabilised with any diversions to lower ERSED controls (soil, ballast & geofab berms intact) inside corridor.</p> <p>No visible sign of surface flow from site/corridor</p> <p>Clear water flowing through drain on roundabout up at the cnr of Ewart/Terrace</p>		
<p>Location 2</p> <p>Hurlstone Park, countryside</p>	<p>No work</p>	<p>Water clarity and colour: Odour: N/A</p> <p>Description of flow and quantity/ Visible runoff (into the water body): N/A</p> <p>Oil and Grease: N/A</p> <p>Details of any foreign objects within the water: N/A</p> <p>Other comments/description: N/A</p>	<p style="text-align: center;">NO PO AVAILABLE – AREA NOT INSPECTED</p>	<p>No JHLOR work in area.</p>		

Inspection Type:	JHLOR Construction Activities in area	Comments from Inspection of waterways	Photos	Additional Observations Are there any impacts related to JHLOR construction works	Follow up action required	Outcome of follow up action
Location 3 West bank of Cook's River	No construction activity on Wairoa St.	Water clarity and colour: Clear Odour: Nil Description of flow and quantity/ Visible runoff (into the water body): Low flow Oil and Grease: Nil Details of any foreign objects within the water: N/A Other comments/description: N/A		Wairoa St area is stabilised. No work up in this area.		
Location 4 Belmore Triangle Access Road	No work in area. Gate locked on arrival	Water clarity and colour: Odour: N/A Description of flow and quantity/ Visible runoff (into the water body): N/A Oil and Grease: N/A Details of any foreign objects within the water: N/A Other comments/description: N/A	<p style="text-align: center;">NO PO AVAILABLE – AREA NOT INSPECTED</p> 	Surface mostly covered by ballast. Mid batter berm intact to divide catchment. Thick vegetated area around sed fence.		

Inspection Type:	JHLOR Construction Activities in area	Comments from Inspection of waterways	Photos	Additional Observations Are there any impacts related to JHLOR construction works	Follow up action required	Outcome of follow up action
Location 5 Lakemba, country side	No JHLOR works in area	<p>Water clarity and colour: N/A</p> <p>Downstream (North Side): Drainage network below ground – NOT INSPECTED</p> <p>Upstream (South side): Clear</p> <p>Odour: N/A</p> <p>Description of flow and quantity/ Visible runoff (into the water body): N/A</p> <p>Oil and Grease: N/A</p> <p>Details of any foreign objects within the water: N/A</p> <p>Other comments/description: N/A</p>	<p style="text-align: center;">Downstream (North Side)</p> <p style="text-align: center;">AREA NOT INSPECTED</p> <p style="text-align: center;">Upstream (South side)</p> 	No JHLORJV works occurring in area		
Location 6 Wiley Park, countryside.	No JHLOR works in area for a few months	<p>Water clarity and colour:</p> <p>Downstream (Nth side): See notes in photo section</p> <p>Upstream (Sth side): See notes in photo section</p> <p>Odour: Nil</p> <p>Description of flow and quantity/ Visible runoff (into the water body):</p> <p>Oil and Grease: Nil</p> <p>Details of any foreign objects within the water:</p> <p>Other comments/description:</p>	<p style="text-align: center;">Downstream (North Side of corridor)</p> <p>Upstream of Culvert. Gate WP3 and roadway below – No dirty water flowing off site. Collection of sediment at bottom of road is from the hardstand</p>  <p style="text-align: center;">Western most culvert</p> <p>Low flow, slightly turbid water from main culvert. Small inlet from the RHS – turbid water flowing into culvert. Unknown upstream source but seeping from concrete GLT/ toe of vegetated batter. No oil & grease. No odour</p> 	<p>No JHLOR work in area for a months</p> <p>WP3 access gate checked - no dirty water flowing from stabilised access down to culverts in roadway.</p>		

Inspection Type:	JHLOR Construction Activities in area	Comments from Inspection of waterways	Photos	Additional Observations Are there any impacts related to JHLOR construction works	Follow up action required	Outcome of follow up action
			<p data-bbox="1151 310 1828 365">Middle culvert: Leaf litter and sediment accumulation in drainage area</p>  <p data-bbox="902 726 2080 814">Eastern most culvert Low flow, clear water from main culvert. Inlet from the LHS – clean water flow. No oil & grease. No odour.</p>  <p data-bbox="1308 1171 1673 1201">Upstream (Sth side of corridor)</p> <p data-bbox="1041 1234 1941 1289">Western most culvert Low flow, slightly turbid water from main culvert. No oil & grease. No odour</p>  <p data-bbox="1101 1654 1887 1709">Middle culvert Leaf litter. Catchment is only from a small area within the corridor</p> 			

Inspection Type:	JHLOR Construction Activities in area	Comments from Inspection of waterways	Photos	Additional Observations Are there any impacts related to JHLOR construction works	Follow up action required	Outcome of follow up action
			<p style="text-align: center;">Eastern most Culvert Low flow, clear water from main culvert. No oil & grease. No odour</p> 			
Location 7 Bankstown	Nil		<p style="text-align: center;">No PO available – not inspected – no JHLOR works in catchment NOTE: This flow line is below ground and runs across the corridor from Nth to Sth and can be seen through pits only. They are all inside corridor</p>			
Location 7ALT City side of Bankstown DOWN track (near Stacey St)	Nil	<p>Sth Side Water clarity and colour: Low flow, clear water. Odour: Nil Description of flow and quantity/ Visible runoff (into the water body): see above Oil and Grease: Nil Details of any foreign objects within the water: No debris in water Other comments/description Nil</p>		No JHLOR works within the catchment		
Location 8 'NEW' Cant Compound	No JHLOR works within the catchment	<p>Water clarity and colour from Culvert Under Corridor. Low flow, turbid water from across the track. No water flow water from compound hard stand/asphalt into ballast drain. Odour: Nil Description of flow and quantity/ Visible runoff (into the water body): Slightly cloudy, medium flow of water in eastern channel</p>	<p>Inside Canterbury Compound No noticeable flow in ballast channel. Clean water flowing from Cant Compound carpark. No odour and no oil & grease</p> 	No JHLOR works within the catchment NOTE 1: No flow of water off asphalt parking surface at time of inspection.		

Inspection Type:	JHLOR Construction Activities in area	Comments from Inspection of waterways	Photos	Additional Observations Are there any impacts related to JHLOR construction works	Follow up action required	Outcome of follow up action
		<p>Oil and Grease: Nil</p> <p>Details of any foreign objects within the water: Nil</p> <p>Other comments/description: Nil</p>	<p>Eastern Channel. Outside Canterbury Compound boundary alongside pedestrian footpath:</p> <p>Slightly cloudy, medium flow of water in eastern channel. No odour and no oil & grease. Visible damage to vegetation (from earlier high flow). No noticeable difference between upstream & downstream water colour</p> <p>Upstream from JHLOR discharge point:  Downstream from JHLOR discharge point: </p>			
Location 9 Bankstown Early Works	Nil	<p>Water clarity and colour: Medium flow, clear water.</p> <p>Odour: Nil</p> <p>Description of flow and quantity/ Visible runoff (into the water body): see above</p> <p>Oil and Grease: Nil</p> <p>Details of any foreign objects within the water: No debris in water</p> <p>Other comments/description Nil</p>		No construction work on culvert side.		

Appendix B – Noise Monitoring Report

EPL 21147

R4.4 Validation Report

**July Shut 2023 Segregation Fence Panels, ULX, CSR, Bridge Works,
Cable Installation and Platform Brackets.**

Document and Revision History

Document Details	
Title	R4.4 Validation Report
Client	Sydney Metro City & Southwest
JHLOR JV contract no.	K44

Revisions

Revision	Date	Description	Prepared by	Reviewed by
00	21/7/2023	Prepared for R4.4 Report	Zhengyi Zhang	Andre Kruize

Management reviews

Review date	Details	Reviewed by

Controlled: NO Copy no.: Uncontrolled: YES

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R4.4(a) For activities permitted under Condition L5.6 & L5.7, a validation report must be submitted to the EPA that includes the following detail:3

- 1. Confirmation that the equipment used to undertake the works was as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite 3
- 2. A copy of the community notification required under Condition L5.12 4
- 3. Noise monitoring as required by L5.8(d) 4
- 4. Details of any exceedances of predicted noise levels; 4
- 5. Details of the noise and vibration mitigation measures that were implemented as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite..... 4
- 6. The justification required under L5.6 for the carrying out of works outside of standard construction hours in L5.1. 5

R4.4 (b) The validation report must be submitted to the EPA fortnightly from the commencement of the works permitted by L5.6 & L5.7 by no later than 2 business days from the end of each fortnight. 5

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Introduction

This validation report has been prepared in accordance with EPL 21147 Condition R4.4 and provides compliance to the various CoA noted below. The JHLOR daytime activities also included out-of-hour works (weekend) carried out between 6th and 16th of July during the July Shut. Works was carried under condition L5.6 - Local Possessions at the following locations:

- Sydenham canal fence installation (adjacent to Fraser Park)
- Segregation fence – drilling for bolts & installation of panels
 - From Marrickville to Dulwich Hill Station
 - From Ewart street to Hurston Park Station
 - From Foord Street to Canterbury Road
 - From Broughton Street (adjacent to Cooks River) to Duke Street
- Under Line Crossing (ULX)
 - Marrickville SM7km045,
 - Dulwich Hill SM8km380
 - and Hurlstone Park SM9km300,
 - Campsie SM12km420,
 - Belmore Triangle SM13km305,
 - Belmore Station SM13km970,
 - Lakemba SM15km020,
 - Wiley Park SM15km830,
 - Punchbowl Hirail SM16km740,
 - Punchbowl at SM17km150, SM17km205 and SM18km008
- Bankstown CSR installation (Sydney Metro Chainage: SM19+090)
- Cable Pulling through GST at various locations in corridor
- Bridge Works
 - Church and Duke Street bridge screen installation

Refer to **Attachment 1** for monitoring results.

R4.4(a) For activities permitted under Condition L5.6 & L5.7, a validation report must be submitted to the EPA that includes the following detail:

1. **Confirmation that the equipment used to undertake the works was as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite**

The assessment prepared for the works included modelling for the following plant and equipment:

- Excavators 3T, 6 and 13T (inc jack hammer attachments)
- Balloon tyre dump trucks (Hydrema)
- Light vehicles
- Trucks
- Handheld powered and non-powered tools
- Vac Trucks
- EWP/telehandler
- Front-end loader
- Concrete truck and line pump
- Portable Generators
- Compressors
- Compactor
- Bogie

- Water pumps
- 4T Dumpy
- 60T crane

2. A copy of the community notification required under Condition L5.12

A copy of the community notification as required under Condition L5.12 is appended in **Attachment 2**.

3. Noise monitoring as required by L5.8(d)

July Shut 2023. Real time noise monitoring was carried out at 9 locations (inside the corridor) across the project. Monitors were placed at the following locations:

- a. On the east end of platform 2 at Marrickville Station
- b. 15m south of the east end of platform 2 at Dulwich Hill station
- c. 2m from the corridor fence line at 19 Floss St, Hurlstone Park
- d. 15m west of the north abutment and 5m from 94 Church St, Canterbury
- e. 18m south of 1 Assests St, Campsie
- f. 34m south of 28 Redman Pde, Belmore
- g. 12m south of 76 King George Road, Wiley Park (middle building)
- h. 2m from the corridor fence line at 15 south Terrace (Loder Lane), Punchbowl
- i. 52m east of 124 South Terrace and 47m south of 116 South Terrace

Refer to **Attachment 1**.

4. Details of any exceedances of predicted noise levels;

Throughout the works carried out over the July Shut, there were no exceedances of the noise predictions as a result of construction activity. Actual noise (LAeq 15min) data was collected at the monitoring location and assessed for exceedances.

There were no noise complaints related to JHLOR construction activities.

5. Details of the noise and vibration mitigation measures that were implemented as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite

The following noise mitigation measures were implemented:

- All workers made aware of the expectations in relation to community and work sites through briefings at the OOHW prestart meeting.
- Works to only occur within the hours stipulated in the OOHW Permit.
- All plant, where possible to be positioned so that the exhaust (or noisiest side of the plant) is directed away from sensitive receivers.
- Plant is to be turned off when not in use
- Workers are not to shout, slam doors, drop objects or make any other unnecessary noise. Gatherings are to be away from residential properties.
- Workers are to be mindful of residents when mobilizing and demobilizing
- Noise mats are placed around standing equipment when positioned in close proximity to residents.

Additional mitigation measures in accordance with the Sydney Metro Construction Noise and Vibration Strategy were implemented which included:

- Letter box drops
- Noise monitoring at selected locations
- A noise model was developed and where required (weekend activities), respite offers (RO) provided for residents with predicted noise exceedance of over 20dB and alternative accommodation (AA) offered for residents with predicted noise exceedance of over 30dB above the background.

6. The justification required under L5.6 for the carrying out of works outside of standard construction hours in L5.1.

The works carried out during the scheduled July Shut were completed under L5.6 (Local Possessions), as carrying out these works and activities during standard construction hours (as specified in L5.1) would cause unacceptable safety risks to construction personnel, rail passenger, railways personnel safety and the railway network operational reliability. Construction activities occurring within the rail corridor/danger zone can only be safely conducted during a rail possession and the absence of trains. All feasible and reasonable at-source noise controls were implemented in accordance with Condition L4.1, and noise mitigation measures were implemented in accordance with JHLORJV's CNVIS and Interim Construction Noise Guideline (DECC 2009).

R4.4 (b) The validation report must be submitted to the EPA fortnightly from the commencement of the works permitted by L5.6 & L5.7 by no later than 2 business days from the end of each fortnight.

This R4.4 Validation report has been submitted within the period above.

Attachment 1 – Noise Monitoring Results

- Monitoring Result
- Monitoring Location

Table 1. Continues monitoring result for Monitoring Location A

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq,15min at resident	Compliant	Comments	
1	NCA 01 <ul style="list-style-type: none"> Continuous Monitoring On the east end of platform 2 at Marrickville Station 06/07/2023 08:45 AM to 08/07/2023 11:30 AM 	06/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 2 No. 6.5T Excavator - 1 No. Hydrema 	61.4	72	Yes	<ul style="list-style-type: none"> • RBL: 38 • LAeq15min below predictions. • Noise monitor detect highest LAeq15min value of 61.4 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. • The Highest LA_{aeq} in work period (61.4 dB) is lower than the predicted level (72 dB) • Predicted noise levels (weekend works) in this area triggered offers for Respite. 	
2		06/07/2023 To 07/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
3		07/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 2 No. 6.5T Excavator - 1 No. Hydrema 	59.5	72	Yes	<ul style="list-style-type: none"> • RBL: 38 • LAeq15min below predictions. • Noise monitor detect highest LAeq15min value of 59.5 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. • The Highest LA_{aeq} in work period (59.5 dB) is lower than the predicted level (72 dB) • Predicted noise levels (weekend works) in this area triggered offers for Respite. 	
4		07/07/2023 To 08/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
5		08/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 2 No. 6.5T Excavator - 1 No. Hydrema 	61.7	72	Yes	<ul style="list-style-type: none"> • RBL: 38 • LAeq15min below predictions. • Noise monitor detect highest LAeq15min value of 61.7 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. • The Highest LA_{aeq} in work period (61.7 dB) is lower than the predicted level (72 dB) • Predicted noise levels (weekend works) in this area triggered offers for Respite. 	

Table 2. Continues monitoring result for Monitoring Location B

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq,15min at resident	Compliant	Comments	
1	NCA 02 <ul style="list-style-type: none"> Continuous Monitoring 15m south of the east end of platform 2 at Dulwich Hill station 11/07/2023 10:00 AM to 14/07/2023 13:30 PM 	11/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer 	65.7	76	Yes	<ul style="list-style-type: none"> • RBL: 38 • LAeq15min below predictions. • Noise monitor detect highest LAeq15min value of 65.7 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. • The Highest LA_{req} in work period (65.7 dB) is lower than the predicted level (76 dB) • Predicted noise levels (weekday works) in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
2		11/07/2023 To 12/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
3		12/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer 	64.3	76	Yes	<ul style="list-style-type: none"> • RBL: 38 • LAeq15min below predictions. • Noise monitor detect highest LAeq15min value of 64.3 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. • The Highest LA_{req} in work period (64.3 dB) is lower than the predicted level (76 dB) • Predicted noise levels (weekday works) in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
4		12/07/2023 To 13/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
5		13/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer 	59.9	76	Yes	<ul style="list-style-type: none"> • RBL: 38 • LAeq15min below predictions. • Noise monitor detect highest LAeq15min value of 59.9 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. • The Highest LA_{req} in work period (59.9 dB) is lower than the predicted level (76 dB) • Predicted noise levels (weekday works) in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
6		13/07/2023 To 14/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
7		14/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer 	58.9	76	Yes	<ul style="list-style-type: none"> • RBL: 38 • LAeq15min below predictions. • Noise monitor detect highest LAeq15min value of 58.9 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. • The Highest LA_{req} in work period (58.9 dB) is lower than the predicted level (76 dB) • Predicted noise levels (weekday works) in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	

Table 3. Continues monitoring result for Monitoring Location C

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq,15min at resident	Compliant	Comments
1	NCA 03 <ul style="list-style-type: none"> Continuous Monitoring 2m from the corridor fence line at 19 Floss St, Hurlstone Park 8/07/2023 07:45 AM to 11/07/2023 13:15 PM 	08/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer 	64.5	75	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 64.5 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{avg} in work period (64.5 dB) is lower than the predicted level (75 dB) Predicted noise levels (weekend works) in this area triggered offers for Respite.
2		08/07/2023 To 09/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA
3		09/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer 	69.8	75	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 69.8 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{avg} in work period (69.8 dB) is lower than the predicted level (75 dB) Predicted noise levels (weekend works) in this area triggered offers for Respite.
4		09/07/2023 To 10/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA
5		10/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer 	63.6	75	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 63.6 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{avg} in work period (63.6 dB) is lower than the predicted level (75 dB) Predicted noise levels (weekend works) in this area triggered offers for Respite.
6		10/07/2023 To 11/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA
7		11/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> - Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer 	58.0	75	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 58.0 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{avg} in work period (58.0 dB) is lower than the predicted level (75 dB) Predicted noise levels (weekend works) in this area triggered offers for Respite.

Table 4. Continues monitoring result for Monitoring Location D

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq,15min at resident	Compliant	Comments	
1	NCA 04 <ul style="list-style-type: none"> Continuous Monitoring 15m west of the north abutment and 5m from 94 Church St, Canterbury 7/07/2023 07:30 AM to 11/07/2023 13:45 PM 	07/07/2023	Day to Evening 7:00 am to 22:00 pm	Protection Screen Installation (posts, mesh, plexiglass)	- 1 No. Hi Rail EWP - 1 No. truck crane - Powered hand tool	57.1	65	Yes	<ul style="list-style-type: none"> RBL: 40 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 57.1 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{aeq} in work period (57.1 dB) is lower than the predicted level (65 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
2		07/07/2023 To 08/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
3		08/07/2023	Day to Evening 7:00 am to 22:00 pm	Protection Screen Installation (posts, mesh, plexiglass)	- 1 No. Hi Rail EWP - 1 No. truck crane - Powered hand tool	58.7	65	Yes	<ul style="list-style-type: none"> RBL: 40 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 58.7 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{aeq} in work period (58.7 dB) is lower than the predicted level (65 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
4		08/07/2023 To 09/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
5		09/07/2023	Day to Evening 7:00 am to 22:00 pm	Protection Screen Installation (posts, mesh, plexiglass)	- 1 No. Hi Rail EWP - Powered hand tool	56.6	65	Yes	<ul style="list-style-type: none"> RBL: 40 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 56.6 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{aeq} in work period (56.6 dB) is lower than the predicted level (65 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
6		09/07/2023 To 10/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
7		10/07/2023	Day to Evening 7:00 am to 22:00 pm	Protection Screen Installation (posts, mesh, plexiglass)	- 1 No. Hi Rail EWP - Powered hand tool	56.9	65	Yes	<ul style="list-style-type: none"> RBL: 40 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 56.9 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{aeq} in work period (56.9 dB) is lower than the predicted level (65 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
8		10/07/2023 To 11/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
9		11/07/2023	Day to Evening 7:00 am to 22:00 pm	Protection Screen Installation (posts, mesh, plexiglass)	- 1 No. Hi Rail EWP - Powered hand tool	56.6	65	Yes	<ul style="list-style-type: none"> RBL: 40 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 56.6 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{aeq} in work period (56.6 dB) is lower than the predicted level (65 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	

Table 5. Continues monitoring result for Monitoring Location E

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq,15min at resident	Compliant	Comments	
1	NCA 06 • Continuous Monitoring • 18m south of 1 Assests St, Campsie • 7/07/2023 07:30 AM to 11/07/2023 14:00 PM	07/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	- Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer	66.5 (Actual at resident 65)	66	Yes	<ul style="list-style-type: none"> RBL: 45 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 66.5 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Actual Highest LA_{aeq} in work period (65 dB) is lower than the predicted level (66 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
2		07/07/2023 To 08/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
3		08/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	- Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer	59.4	66	Yes	<ul style="list-style-type: none"> RBL: 45 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 59.4 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{aeq} in work period (59.4 dB) is lower than the predicted level (66 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
4		08/07/2023 To 09/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
5		09/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	- Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer	58.3	66	Yes	<ul style="list-style-type: none"> RBL: 45 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 58.3 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{aeq} in work period (58.3 dB) is lower than the predicted level (66 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
6		09/07/2023 To 10/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
7		10/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	- Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer	55.8	66	Yes	<ul style="list-style-type: none"> RBL: 45 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 55.8 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{aeq} in work period (55.8 dB) is lower than the predicted level (66 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
8		10/07/2023 To 11/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
9		11/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	- Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer	56.8	66	Yes	<ul style="list-style-type: none"> RBL: 45 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 56.8 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{aeq} in work period (56.8 dB) is lower than the predicted level (66 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	

Table 6. Continues monitoring result for Monitoring Location F

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq,15min at resident	Compliant	Comments	
1	NCA 07 <ul style="list-style-type: none"> Continuous Monitoring 34m south of 28 Redman Pde, Belmore 06/07/2023 07:00 AM to 07/07/2023 15:00 PM 	06/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> Powered Hand tools 1 No. 17T Excavator 1 No. 6.5T Excavator 1 No. Hydrema 	52.2	65	Yes	<ul style="list-style-type: none"> RBL: 41 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 52.2 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (52.2 dB) is lower than the predicted level (65 dB) Predicted noise levels (weekday works) in this area did not trigger offers for Respite. 	
2		06/07/2023 To 07/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
3		07/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> Powered Hand tools 1 No. 17T Excavator 1 No. 6.5T Excavator 1 No. Hydrema 	60.3	65	Yes	<ul style="list-style-type: none"> RBL: 41 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 59.4 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (60.3 dB) is lower than the predicted level (65 dB) Predicted noise levels (weekday works) in this area did not trigger offers for Respite. 	

Table 7. Continues monitoring result for Monitoring Location G

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq,15min at resident	Compliant	Comments	
1	NCA 09 <ul style="list-style-type: none"> Continuous Monitoring 12m south of 76 King George Road, Wiley Park (middle building) 10/07/2023 13:45 PM to 12/07/2023 13:00 AM 	10/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> Powered Hand tools 1 No. 17T Excavator 1 No. 6.5T Excavator 1 No. Hydrema Jackhammer 	54.9	67	Yes	<ul style="list-style-type: none"> RBL: 44 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 54.9 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (54.9 dB) is lower than the predicted level (67 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
2		10/07/2023 To 11/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
3		11/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> Powered Hand tools 1 No. 17T Excavator 1 No. 6.5T Excavator 1 No. Hydrema Jackhammer 	55.4	67	Yes	<ul style="list-style-type: none"> RBL: 44 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 55.4 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (55.4 dB) is lower than the predicted level (67 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
4		11/07/2023 To 12/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
5		12/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> Powered Hand tools 1 No. 17T Excavator 1 No. 6.5T Excavator 1 No. Hydrema Jackhammer 	54.3	67	Yes	<ul style="list-style-type: none"> RBL: 44 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 54.3 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (54.3 dB) is lower than the predicted level (67 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	

Table 8. Continues monitoring result for Monitoring Location H

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq,15min at resident	Compliant	Comments	
1	NCA 10 • Continuous Monitoring 2m from corridor fence line at 15South Terrace (Loder Lane), Punchbowl. • 08/07/2023 12:00 PM to 12/07/2023 13:30 PM	08/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	- Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer	59.8	68	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 59.8 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (59.8 dB) is lower than the predicted level (68 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
2		08/07/2023 To 09/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
3		09/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	- Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer	56.1	68	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 56.1 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (56.1 dB) is lower than the predicted level (68 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
4		09/07/2023 To 10/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
5		10/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	- Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer	55.5	68	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 55.5 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (55.5 dB) is lower than the predicted level (68 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
6		10/07/2023 To 11/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
7		11/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	- Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer	55.0	68	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 55.0 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (55.0 dB) is lower than the predicted level (68 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	
8		11/07/2023 To 12/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA
9		12/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	- Powered Hand tools - 1 No. 17T Excavator - 1 No. 6.5T Excavator - 1 No. Hydrema - Jackhammer	57.2	68	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 57.2 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (57.2 dB) is lower than the predicted level (68 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA). 	

Table 9. Continues monitoring result for Monitoring Location I

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq in work period at Monitoring Location	Predicted noise level LAeq,15min at resident	Compliant	Comments
1	NCA 11 <ul style="list-style-type: none"> Continuous Monitoring 52m east of 124 South Terrace and 47m south of 116 South Terrace 10/07/2023 13:45 PM to 12/07/2023 13:00 AM 	10/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> Powered Hand tools 1 No. 17T Excavator 1 No. 6.5T Excavator 1 No. Hydrema 	59.8	69	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 59.8 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (59.8 dB) is lower than the predicted level (69 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA).
2		10/07/2023 To 11/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA
3		11/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> Powered Hand tools 1 No. 17T Excavator 1 No. 6.5T Excavator 1 No. Hydrema 	58.9	69	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 58.9 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (58.9 dB) is lower than the predicted level (69 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA).
4		11/07/2023 To 12/07/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA
5		12/07/2023	Day to Evening 7:00 am to 22:00 pm	Under Line Crossing (ULX) construction	<ul style="list-style-type: none"> Powered Hand tools 1 No. 17T Excavator 1 No. 6.5T Excavator 1 No. Hydrema 	56.2	69	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 56.2 dB due to general construction noise between the hours of 07:00 am an 22:00 pm. The Highest LA_{eq} in work period (56.2 dB) is lower than the predicted level (69 dB) Predicted noise levels in this area did not trigger offers for Respite or Alternative Accommodation (AA).

JULY SHUT 2023 SiteHive Locations



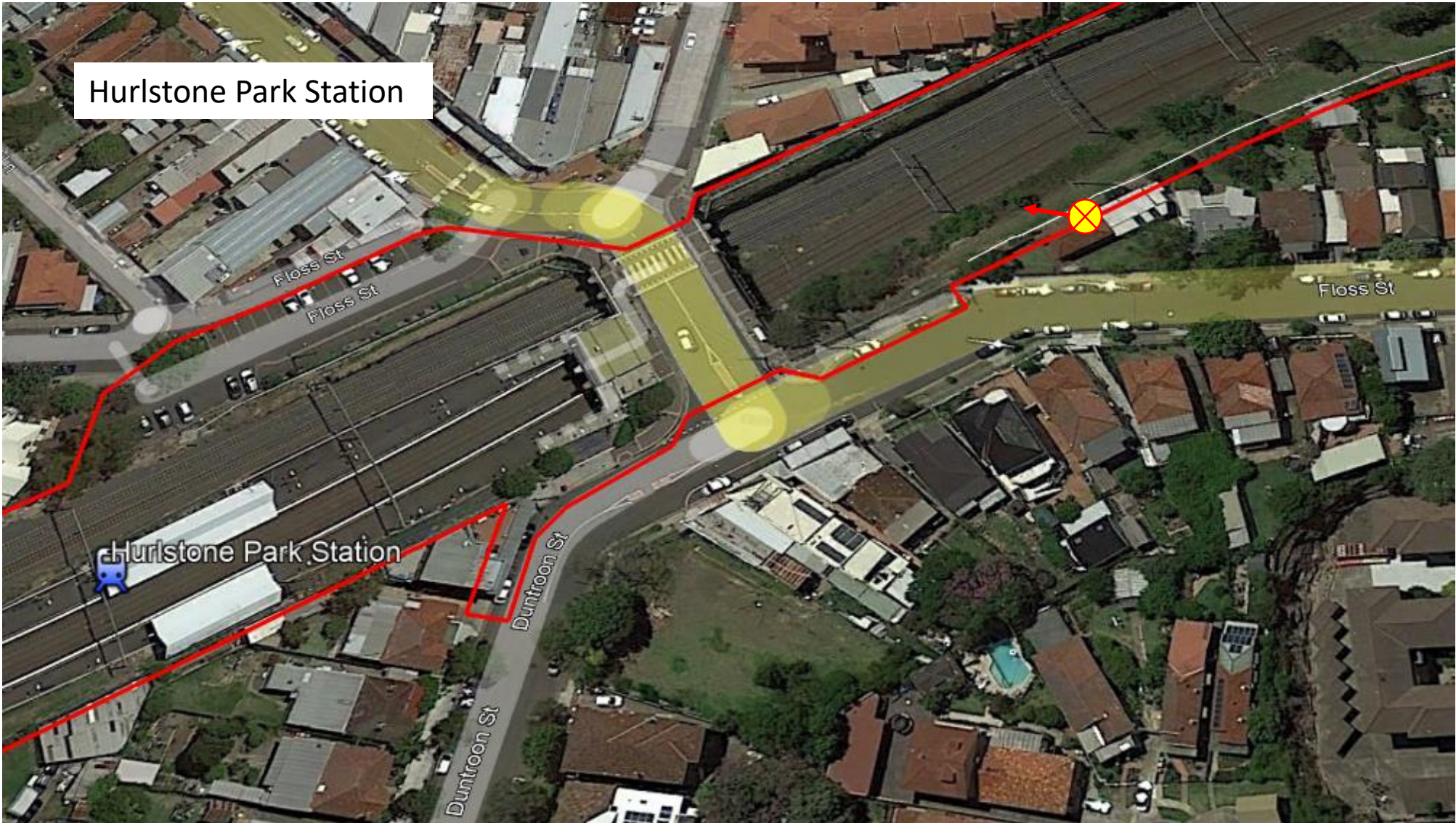
Dulwich Hill Station



Dulwich Hill Station



Hurlstone Park Station

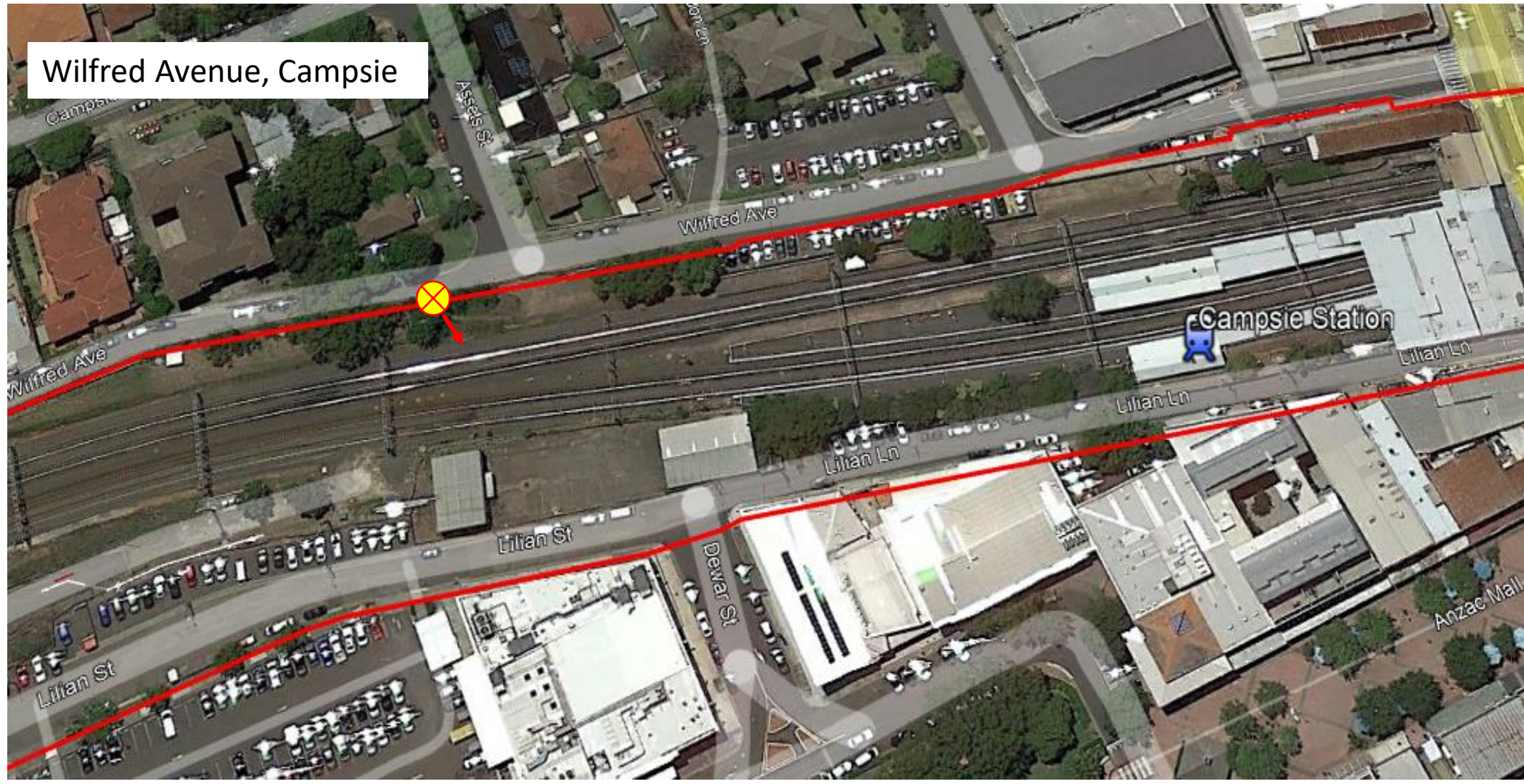


Hurlstone Park Station

Church Steet, Canterbury



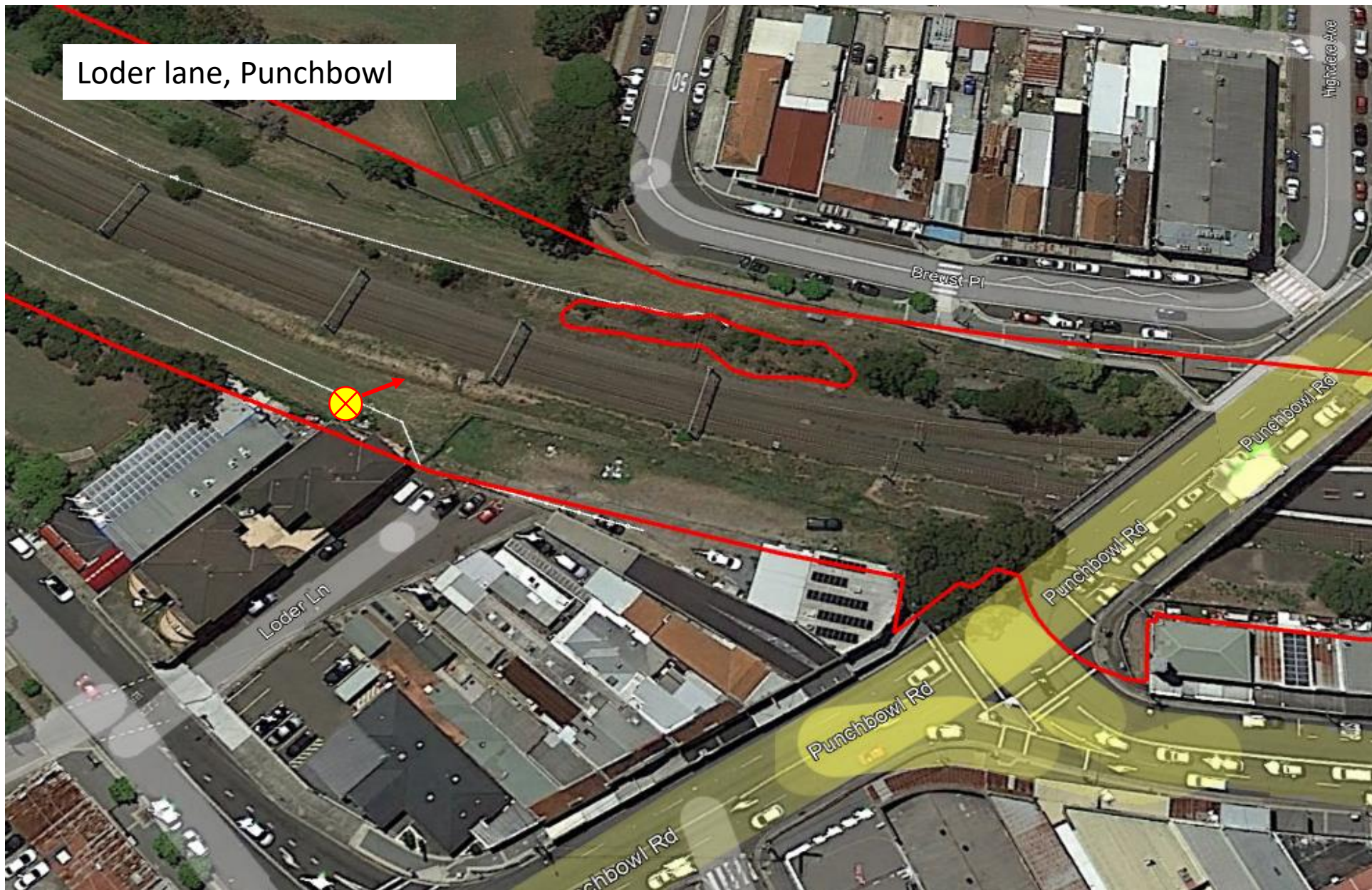
Wilfred Avenue, Campsie



Wiley Park Station



Loder lane, Punchbowl



South Terrace, Punchbowl



Attachment 2 – Community Notification

Community Notifications were provided to residents of:

- Sydenham
- Marrickville
- Canterbury
- Hurlstone Park
- Dulwich Hill
- Campsie
- Belmore
- Wiley Park
- Punchbowl to Bankstown

Please refer to the following community notifications for works undertaken at the previously stated locations.

Monthly Update - Sydenham Station

July 2023

Sydney Metro is Australia's biggest public transport project.

Services started in May 2019 in the city's northwest with a train every four minutes in the peak. Metro rail will be extended into the CBD and beyond to Bankstown in 2024. There will be new CBD metro railway stations underground at Martin Place, Pitt Street and Barangaroo and new metro platforms at Central.

By 2030, Sydney will have a network of four metro lines, 46 stations and 113km of new metro rail. Sydney Metro is revolutionising how Australia's biggest city travels, connecting Sydney's northwest, west, southwest and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

John Holland Pty Ltd and Laing O'Rourke Australia Construction Pty Ltd were awarded the contract for major railway work at Sydenham as part of Sydney Metro, including upgrades at Sydenham Station and inside the rail corridor. MTR Australia has also been working at the station to install communications systems at the station and platform edge barrier system on platforms 1 and 2.





Standard work hours	
The following activities will be undertaken during standard construction hours from Monday to Friday 7am-6pm and Saturday 8am to 1pm	
Location	Planned activities in July 2023
Sydenham Station	<ul style="list-style-type: none"> • Installation of cables and equipment in the services buildings and at the station • Testing and commissioning activities of electrical services, including track, power and communication and signalling equipment and systems • Testing and commissioning of the platform screen doors • Dynamic train testing • Minor finishing works
Rail corridor	<ul style="list-style-type: none"> • Temporary removal of trackside equipment • Installation of cables
Out of hours	
The following activities will be undertaken out of standard work hours in July	
Location	Planned out of hours activities
Saturday 8 and Sunday 9 July 2023, Saturday 15 and Sunday 16 July 2023, 6am to 6pm	<ul style="list-style-type: none"> • Temporary removal of trackside equipment • Installation of cables
Saturdays and Sundays in July, 7am to 6pm	<ul style="list-style-type: none"> • Finishing works for platform screen doors on platforms 1 and 2.
24/7 in July	<ul style="list-style-type: none"> • Dynamic train testing • Testing and commissioning of new communications and signalling systems at Sydenham Station

What to expect

Equipment will include hi-ab truck, hand tools and power tools. The project team will take every step possible to minimise noise impacts. A range of measures are in place to meet the project's approval conditions and reduce noise, including noise barriers, using only the necessary equipment for each task, turning off equipment when not in use and equipping machinery with non-tonal movement alarms.

Thank you for your cooperation while we complete this essential work. We encourage you to provide a contact email or phone number so we can add you to our distribution list for updates on this work.

To be included on our distribution list for project updates or if you have any questions about this work, please contact 1800 171 386 or email sydneymetro@transport.nsw.gov.au.

-  **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**

Notification – Marrickville

July 2023

The T3 Bankstown Line between Sydenham and Bankstown will be closed from Thursday 6 July to Sunday 16 July 2023 for metro upgrade work.

Opal enabled rail replacement bus services will be available during this time. You can plan your trip at transport.nsw.info and on real time apps from late June. Kerbside changes will also be in place around affected train stations for temporary bus zones. Please check signage before parking your car.

You may also notice an increase in plant and materials being removed from our sites as station contractors complete their scope along the alignment.

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Passenger services from Chatswood to Sydenham will commence in 2024.

Location	Details of work during the shutdown - from Thursday 6 July to Sunday 16 July
Marrickville (along the rail corridor):	<ul style="list-style-type: none"> • Installation of new underground services around station and along corridor, including excavation, rock breaking and trenching work • Installation of posts, panels, surveying, inspection and maintenance of segregation fences • Temporary parking removal along Kays Ave and near rail access gate from 11 – 14 July • Temporary removal of parking along Warburton Street between Illawarra Road and Wooley Lane and Wooley Lane between Warburton Street and the rail corridor • High voltage cabling and other electrical installation work along rail corridor • Fit and strap covers to galvanised steel troughing • Anti-climb fencing installation and associated activities • Delivery, storage and removal of materials and plant through Riverdale Avenue and Victoria Road • Footpath work including temporary fencing, tactile installation and temporary lighting installation for footpath and cycleway between Station Street and Victoria Road • Signage installation at service pits • Room and building fit outs and trackside equipment activities
Around Marrickville Station	<ul style="list-style-type: none"> • Installation of brackets on station platform • Voltage Limiting Device (VLD) delivery and VLD negative cabling works • Work on throw screens on Illawarra Road bridge • Electrical work and testing for CCTV power supply • Earthing and uncovering of pits around the station • Installation of cable servicing routes pit signage • Delivery, storage and removal of materials and plant through Riverdale Avenue and Victoria Road • High-Level containment on Platform 1 station buildings • Testing and commissioning of services including mechanical, fire and active assets including platform lighting and live voltage services • Room and building fit outs and trackside equipment activities
Services building site in the rail corridor, off Victoria Road	<ul style="list-style-type: none"> • Installation of fencing to the perimeter of the building, building services and equipment • Concreting work to the east of the building on Victoria Road • Victoria Road footpath work including demolition and construction with footpath to be closed for up to a week and pedestrians to be managed by traffic control • Concrete truck deliveries and concrete pumps • Installation of security gate and mesh panels to the Victoria Road entrance to the Metro services building and removal of temporary gate and fencing • Service equipment building interface contractor works • Landscaping
Substation site (Randall Street)	<ul style="list-style-type: none"> • High voltage cabling and other electrical installation work

Planned work during the remainder of July

Before and after the shutdown, work will continue during standard construction hours, Monday to Friday 7am to 6pm and Saturday 8am to 6pm. Due to the nature of some activities and for the safety of workers, some work will also be completed outside of standard hours, including at night. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / Time	Details of work outside of planned rail shutdown
<p>Standard construction hours</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work • Securing the galvanised steel troughing lids • Testing and jointing cables within the rail corridor • Testing and Commissioning of services including mechanical, fire and active assets including platform lighting and low voltage services • Metro services building work including installation of fencing to the perimeter of the building and building services and equipment, concreting work to the east of the building on Victoria Road • Demolition of existing Victoria Road footpath and excavation of Metro Services Building driveway • Victoria Road footpath work with footpath to be closed for up to a week and pedestrians to be managed by traffic control • Installation of security gate and mesh panels at Victoria Road entrance of Metro Services Building • Removal of temporary fencing from Victoria Road footpath and replaced by permanent security gate • Ongoing termination work • Local cabling for padmount • Traffic control to facilitate truck movements from Livingstone Road into Randall Street • Installation of cables, cable supports, cable tray structures as well as mechanical and electrical fit out, installation of fencing, landscaping and streetscaping including driveways, kerbs, and footpaths • Room and building fit outs and trackside equipment activities
<p>Mid-week between 6pm and 7am (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

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Notification – Dulwich Hill

July 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

Location	Details of work during the shutdown - from Thursday 6 July to Sunday 16 July
Dulwich Hill (along the rail corridor)	<ul style="list-style-type: none"> • Installation of corridor access stairs to the platform • Installation of new underground services around station and along corridor, including excavation, rock breaking and trenching work • Installation of posts and panels, surveying, inspections and maintenance of segregation fences • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work • High voltage cabling and other electrical installation and trackside equipment work along rail corridor • Fit and strap covers to galvanised steel troughing along rail corridor • Ongoing anti-climb fencing installation and associated activities
Around Dulwich Hill Station	<ul style="list-style-type: none"> • Work to new stair canopies including lighting, flashings, cladding and gutters • Installation of station equipment framing and support brackets • Fit out of station rooms and buildings • Electrical work, cable and trackside equipment installation and switchboard modification • Painting work • Installation of new brickwork under the stairs • Waterproofing and paving work on new footbridge • Replacement of tactiles on platform • Installation of new lifts • Installation of brackets on station platform • Voltage Limiting Device (VLD) delivery and VLD negative cabling work
Services building site at Ewart Lane	<ul style="list-style-type: none"> • Installation of remaining brickwork facade • Internal services and fit out work • Delivery of equipment
Substation site (off Randall St behind Albermarle St, Marrickville)	<ul style="list-style-type: none"> • HV cabling and other electrical installation work

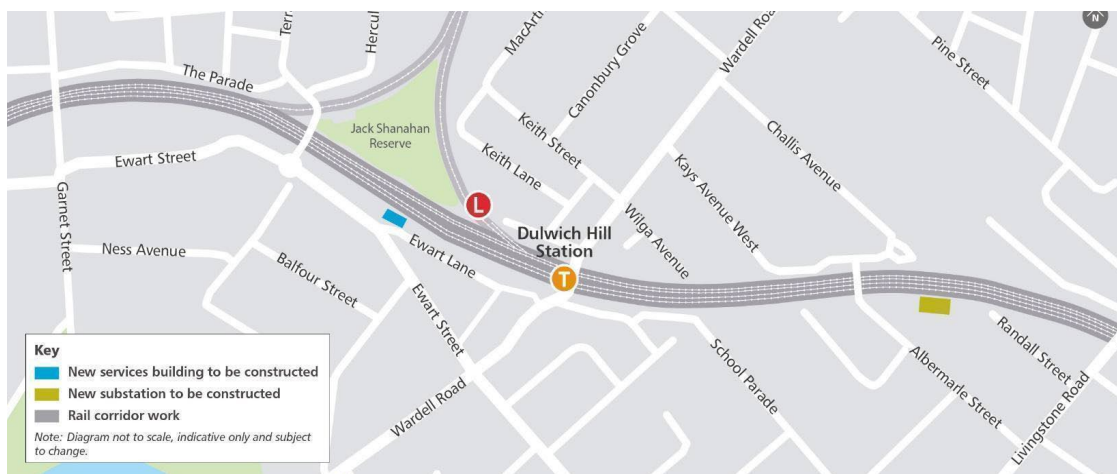
Planned work during the remainder of July

Before and after the shutdown, work will continue during standard construction hours, Monday to Friday 7am to 6pm and Saturday 8am to 6pm. Due to the nature of some activities and for the safety of workers, some work will also be completed outside of standard hours, including at night. Planned out-of-hours work following the shutdown are detailed in the table over the page.

Date / time	Details of work outside of planned rail shutdown
Standard construction hours	<ul style="list-style-type: none"> • Internal building services and fit out work • Concrete, fencing and paving work to new plaza area • Waterproofing and paving work to new footbridge • Lift installation • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work • Local cabling for padmount • Ongoing termination work at services building • Securing galvanised steel troughing lids • Testing and jointing cables within the rail corridor • Traffic control to facilitate truck movements from Livingstone Road into Randall Street • Installation of fencing, cables, cable supports, cable tray structure and trackside equipment as well as mechanical and electrical fit out at the substation • Streetscaping including driveways, kerbs, and footpaths, plus landscaping
Mid-week work between 6pm and 7am (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Alana/Grace** or email LinewideMetro@transport.nsw.gov.au. For all other work please ask for **Claire** or email SouthwestMetro@transport.nsw.gov.au.

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Notification – Hurlstone Park

July 2023

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Passenger services from Chatswood to Sydenham will commence in 2024, then on to Bankstown within 12 months.

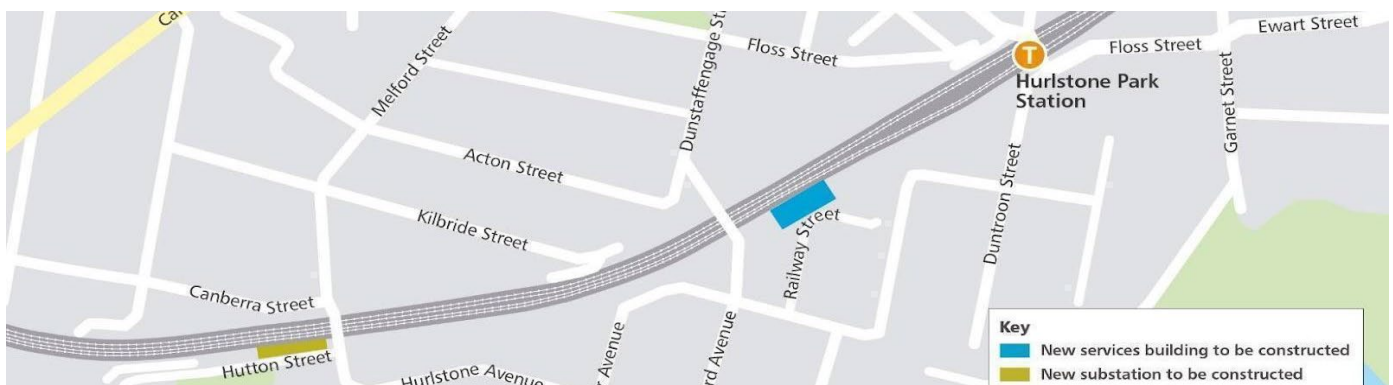
Location	Details of work during the shutdown - from Thursday 6 July to Sunday 16 July
Hurlstone Park (along the rail corridor):	<ul style="list-style-type: none"> • Site investigations and surveys including non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Removal of trees, vegetation and asbestos as required • Installation of fencing, bridge throw screens and cable service route (CSR) including cable pulling • Minor landscaping work • Installation of new underground services around the station and along the corridor, including excavation, rock breaking and trenching work • Installation of brackets on station platform • Installation of posts and panels, surveying, inspections, and maintenance of segregation fence • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work • Fit and strap covers to galvanised steel troughing along corridor • High voltage cabling and other electrical installation work and cable and trackside equipment installation • Anti-climb fencing installation and associated activities • Fit out of station equipment rooms and buildings
Around Hurlstone Park Station	<ul style="list-style-type: none"> • Use of access gates and laydown areas at Keir Avenue, The Parade, Ewart Street, Railway Street and Foord Avenue • Asphaltting, drainage, and concreting work • Installation of balustrades and associated glazing work including artwork • Footpath closures for upgrade work with pedestrian and traffic detours in place under the direction of traffic control with residential access to be maintained • Temporary loss of parking on Floss and Duntroon streets to enable footpath work • Commencement of lift car installation • Paving work, ceiling and further glazing work at the concourse area and stairs • Galvanised steel troughing (GST) work and cable and trackside equipment upgrades • High level containment work for electrical and communication services • Fencing work, equipment installation and bracket installation on the platform • Construction work on the bridge, platform finishing work and pavement work to back of platform 2 • Concourse security gate installation and fit out of rooms and buildings • Defect rectification work • Voltage Limiting Device (VLD) delivery and VLD negative cabling work at Hurlstone Park Station • Continued use of site shed within the Floss Street carpark

Services building site off Railway Street	<ul style="list-style-type: none"> • Installation of fencing, cables, and cable service route and galvanised steel troughing • Work associated with installation of future security fences (boundary fences) • Resurfacing of roadways to make good surfaces following services investigation and installation (under traffic control guidance) • Structural work around the Metro services building • Installation of structural steel, roofing & cladding work requiring plant for installation • Services connections for chiller units • Services installation within building structures including cladding and doors to progress building work • Driveway slab construction including kerbs, gutters, ACO drain, bollards • Landscaping activities where feasible • Jackhammering and excavation work to facilitate structures and services installation with required dust and noise mitigation measures in place • Site shed layout adjustments to allow ongoing construction work, with potential for local traffic impacts
Substation site, off Hutton Street	<ul style="list-style-type: none"> • High voltage cabling and other electrical installation work

Date / time	Planned work during the remainder of July
Standard construction hours	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work • Ongoing termination work at the Metro services building • Local cabling for padmount • Site demobilisation at the substation • Installation of cables, cable supports, trackside equipment and mechanical and electrical fit out • Traffic controllers to facilitate truck movements on Hutton Street • Installation of fencing and streetscaping at the substation including driveways, kerbs, and footpaths, plus landscaping
Mid-week between 6pm and 7am outside of the July shutdown (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



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Notification – Canterbury

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Passenger services from Chatswood to Sydenham will commence in 2024.

Location	Details of work during the shutdown - from Thursday 6 July to Sunday 16 July
Canterbury (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work • Installation of new underground services around the station and along corridor, including excavation, rock breaking and trenching work • Installation of posts and panels, surveying, inspection and maintenance of segregation fences • Modification work at Church Street footbridge (7 July to 11 July) including temporary closure of Church Street footbridge and temporary removal of parking along Church Street cul-de-sac (pedestrian diversions in place via Church Street, Tincombe Street, Canterbury Road and the public footpath between the rail corridor and the former Canterbury Bowls Club) • High voltage cabling and other electrical installation work along rail corridor • Fit and strap covers to galvanised steel troughing • Ongoing anti-climb fencing installation and associated activities • Fit out of station equipment rooms and buildings • Installation of trackside equipment and cables and temporary removal of some trackside equipment
Around Canterbury station	<ul style="list-style-type: none"> • Installation of platform hearing loops • Electrical work at bus shelters on Broughton Street, including lane closures (4- 6 July) • Electrical work at the station and Metro services building • Removal of materials and plant • Station and concourse equipment rooms work including retail cladding • Fencing screen work for footbridge • Installation of lift 1 and 2 equipment • Electrical containment installation on Platform 0/1 and 2 and pedestrian ramp, light fittings and building services on Platform 0/1 and 2 • Remediation and painting work for existing structural steel • Metro services building work on Charles Street including civil and remediation work, installation of electrical components and running cables • Installation of brackets on station platform • Delivery of Voltage Limiting Device (VLD) and VLD negative cabling work
Substation site off Hutton Street	<ul style="list-style-type: none"> • High voltage cabling and other electrical installation work

Planned work during the remainder of July

Before and after the shutdown, work will continue during standard construction hours, Monday to Friday 7am to 6pm and Saturday 8am to 6pm. Due to the nature of some activities and for the safety of workers, some work will also be completed outside of standard hours, including at night. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / Time	Details of work outside of planned rail shutdown
<p>Standard construction hours</p>	<ul style="list-style-type: none"> • Work within the rail corridor including electrical work, testing and jointing cables • De-vegetation and tree clearing throughout the rail corridor where required • Securing the galvanised steel troughing lids • Storage and removal of materials and plant around the station • Fencing screens work along the footbridge • Retail cladding and work on the station building and station equipment rooms • Installation of Lift 1 and 2 equipment • Electrical containment installation on Platform 0/1 and 2 and pedestrian ramp, light fittings and building services on Platform 0/1 and 2 • Remediation and painting work for existing structural steel • Metro services building work on Charles Street including civil and remediation work, installation of electrical components and running cables • Demobilisation of amenities from sites including the carpark, 6 Charles Street storage area and 6 Broughton Street storage area • Local cabling for padmount • Ongoing termination work at services building • Vegetation management and delivery of plant and material including preparatory activities for upcoming out-of-hours work at the former Bowling Club resulting in temporary parking impacts on Close Street • Substation work including site demobilisation, installation of fencing, installation of cables, cable supports, and mechanical and electrical fit out • Traffic controllers to facilitate truck movements on Hutton Street • Streetscaping, including driveways, kerbs, and footpaths, plus landscaping
<p>Mid-week between 6pm and 7am (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.

Keeping you informed

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Notification – Campsie

July 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

Location	Details of work during the shutdown - from Thursday 6 July to Sunday 16 July
Campsie (along the rail corridor)	<ul style="list-style-type: none"> • Installation of new underground services around the station and corridor, including excavation, rock breaking and trenching work • Installation of posts and panels, surveying, inspections and maintenance of segregation fences • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Modification to the Duke Street footbridge, including temporary closure with pedestrian detour via Beamish Street from 12 July to 17 July • Temporary removal of parking spaces adjacent to the rail corridor along South Parade • Platform screen door containment completion on the platform walls • Combined services route modifications and completion for cable pulling • Tactile replacements on platform 1 and 2 • Fit and strap covers to galvanised steel troughing along rail corridor • High voltage cabling and other electrical installation work along rail corridor • Ongoing anti-climb fencing installation and associated activities • Installation and removal of trackside equipment and installation of cables
Around Campsie Station	<ul style="list-style-type: none"> • Installation of brackets on the station platform • Internal modifications and fit out to concourse and other buildings and equipment rooms • Concourse ceiling installation and finishes on walls • Painting of new and existing buildings, ceilings and walls • Voltage Limiting Device (VLD) delivery and VLD negative cabling work • Installation of trackside equipment and cables
Services building site at Lilian Lane opposite Dewar Street	<ul style="list-style-type: none"> • Face brick installation on the rail corridor side of the building • Completion and modification work on various internal building services trades • Ongoing entering and exiting of construction plant to/from the site • Deliveries and pick up of materials
Substation site (Off Lilian Street)	<ul style="list-style-type: none"> • High voltage cabling and other electrical installation work

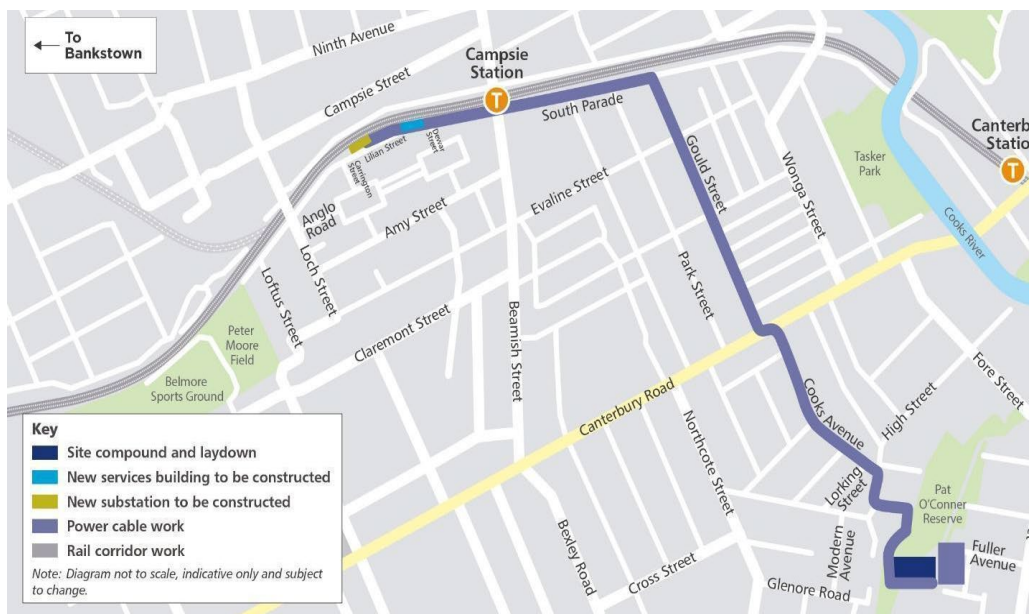
Planned work during the remainder of July

Before and after the shutdown, work will continue during standard construction hours, Monday to Friday 7am to 6pm and Saturday 8am to 6pm. Due to the nature of some activities and for the safety of workers, some work will also be completed outside of standard hours, including at night. Planned out-of-hours work following the shutdown are detailed in the table over page.

Date / time	Details of work outside of planned rail shutdown
Standard construction hours	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Ongoing termination work at Campsie services building • Local cabling for padmount at Campsie • Traffic controllers to facilitate truck movements on Lilian Street • Bulk power supply installs into the traction substation • Installing cables and cable supports, and mechanical and electrical fit out at substation • Landscaping activities • Securing galvanised steel troughing lids • Testing and jointing cables within the rail corridor • Fit out of station rooms and buildings • Installation and removal of trackside equipment and cables
Mid-week between 6pm and 7am outside of the July shutdown (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work

Equipment used for the above work will include heavy machinery (including but not limited to excavators, trucks, hydraulic ram, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

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Notification – Belmore

July 2023

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You may also notice an increase in plant and materials being removed from our sites as station contractors complete their scope along the alignment.

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Passenger services from Chatswood to Sydenham will commence in 2024.

Location	Details of work during the shutdown - from Thursday 6 July to Sunday 16 July
Belmore (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, fencing • De-vegetation and tree clearing throughout the rail corridor where required • Installation of fencing, cable service routes and galvanised steel troughing • Fit and strap covers to galvanised steel troughing along rail corridor • Installation of security fencing rails and anti-climb fencing work • Installation of new underground services around station and along corridor, including excavation, rock breaking and trenching work • Delivery of construction plant and material as required including the use of traffic control • Station finishing work including painting and concrete patching • High voltage cabling in rail corridor and installation/removal of trackside equipment and cables
Around Belmore Station and at the services building site (off Redman Parade, adjacent to the rail line)	<ul style="list-style-type: none"> • Delivery of construction plant and material and associated activities • Landscaping and road furniture finishing work • Security fencing and cable service route work including drilling and post installation • Metro services building (MSB) service connection work and fit out of rooms and buildings • Landscaping at and around the Metro services building • Demobilisation of the site compound • Termination work at the MSB • Delivery of voltage limiting device (VLD) and VLD negative cabling work • Installation of brackets on station platform and trackside equipment and cables
Lakemba substation, off The Boulevard, near Taylor Street	<ul style="list-style-type: none"> • Dressing the high voltage structures at the substation

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impacts from this work will be very low.*

Planned work during the remainder of July

Before and after the shutdown, work will continue during standard construction hours, Monday to Friday 7am to 6pm and Saturday 8am to 6pm. Due to the nature of some activities and for the safety of workers, some work will also be completed outside of standard hours, including at night. Planned out-of-hours work following the shutdown are detailed in the table over the page.

Date / time	Planned work during the remainder of July
Standard construction hours	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Installation of security fencing rails • Local cabling at padmount and termination work at services building • Delivery and storage of materials, including cables, cable drums, light and heavy vehicles at site compound • Ongoing truck and traffic movements into and out of site, occasionally managed by traffic control • Substation work including landscaping, reinstating the perimeter fence, mechanical and electrical fit out • Detailed excavations, bringing in and removing materials • Traffic control to facilitate truck movements on The Boulevard • Installing cables and cable supports, conduits, transformers and fit out work • Ongoing termination work • Securing the galvanised steel troughing lids • Testing and jointing cables within the rail corridor • Installation and removal of trackside equipment
Mid-week between 6pm and 7am outside of the July shutdown (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

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Notification – Lakemba

July 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

Location	Details of work during the shutdown - from Thursday 6 July to Sunday 16 July
Lakemba (along the rail corridor):	<ul style="list-style-type: none"> • Installation of new underground services around station and along corridor, including excavation, rock breaking and trenching work • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Temporary parking removal at The Boulevarde outside the rail access gate between Quigg and Dennis streets • High voltage cabling in the rail corridor • Anti-climb screen installation and associated activities • Galvanised steel troughing construction work and fit and strap covers • Electrical testing and commissioning of services • Fit out of station equipment rooms and buildings • Trackside equipment work and cabling activities
Around Lakemba station (Railway Parade and The Boulevarde):	<ul style="list-style-type: none"> • Installation of brackets on station platform • Voltage Limiting Device (VLD) delivery and VLD negative cabling work at Lakemba Station • Work on the Haldon Street anti-throw screens • Room and building fit outs and trackside equipment activities
Services building site on Railway Parade near Bellevue Avenue:	<ul style="list-style-type: none"> • Metal work on the security fencing • Delivery of plant and materials
Lakemba substation, off The Boulevarde, near Taylor Street:	<ul style="list-style-type: none"> • Dress high voltage structures • Operating Hi-Rail Plant (EWP) • Installation of trackside equipment and cables

Planned work during the remainder of July

Before and after the shutdown, work will continue during standard construction hours, Monday to Friday 7am to 6pm and Saturday 8am to 6pm. Due to the nature of some activities and for the safety of workers, some work will also be completed outside of standard hours, including at night. Planned out-of-hours work following the shutdown are detailed in the table over the page.

Date / Time	Details of work outside of planned rail shutdown
Standard construction hours	<ul style="list-style-type: none"> • Work within the rail corridor including securing the galvanised steel troughing lids, testing and jointing cables • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work • Installation of security fencing rails • Temporary footpath closure on Haldon Street Bridge for anti-throw screen handrail, anti-graffiti installation and maintenance work • Use of a work platform and crane lifts at Railway Parade and The Boulevard station entry • Carpark reinstatement and minor landscaping work around Metro services building • Construction work including concreting, electrical work, cable installation, cladding, mechanical services installation, security installation at Metro services building • Installation of temporary fencing • Installation and modification of Galvanised Steel Troughing on Metro services building slab • Backfilling and regrading work along Railway Parade and roadside of padmount area retaining wall, formwork and steel fixing, concreting, fencing • Asphaltting work for carpark along Railway Parade • Clean and fit out of stormwater pits • Ongoing termination work • Local cabling for padmount • Substation work including detailed excavations, bringing in and removing materials, reinstating the perimeter fence, landscaping, installation of cables and cable supports, conduits, transformers, and mechanical and electrical fit out • Traffic control to facilitate truck movements on The Boulevard • Ongoing termination work • Fit out of station equipment rooms and buildings • Trackside equipment work and cabling activities
Mid-week between 6pm and 7am (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and material including preparatory activities for upcoming out-of-hours work

Equipment used for all the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



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Notification – Wiley Park

July 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

Lifts now operating at Wiley Park Station

Two new lifts connecting the concourse and platforms at Wiley Park Station are now open for customer use. The new lifts are the first to be completed on the T3 Bankstown Line as part of Sydney Metro upgrade work.

Location	Details of work during the shutdown - from Thursday 6 July to Sunday 16 July
Wiley Park (along the rail corridor)	<ul style="list-style-type: none"> • Installation of new underground services around station and along the rail corridor, including excavation, rock breaking and trenching work • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work • High voltage cabling in the rail corridor • Fit and strap covers to galvanised steel troughing along rail corridor • Ongoing anti-climb fencing installation and associated activities • Fit out of station equipment rooms and buildings • Trackside equipment work and cabling activities
Wiley Park Station	<ul style="list-style-type: none"> • Defect rectification • Rectification of tactiles • Installation of brackets on the station platform • Voltage Limiting Device (VLD) delivery and VLD negative cabling work • Fit out of station equipment rooms and buildings • Trackside equipment work and cabling activities

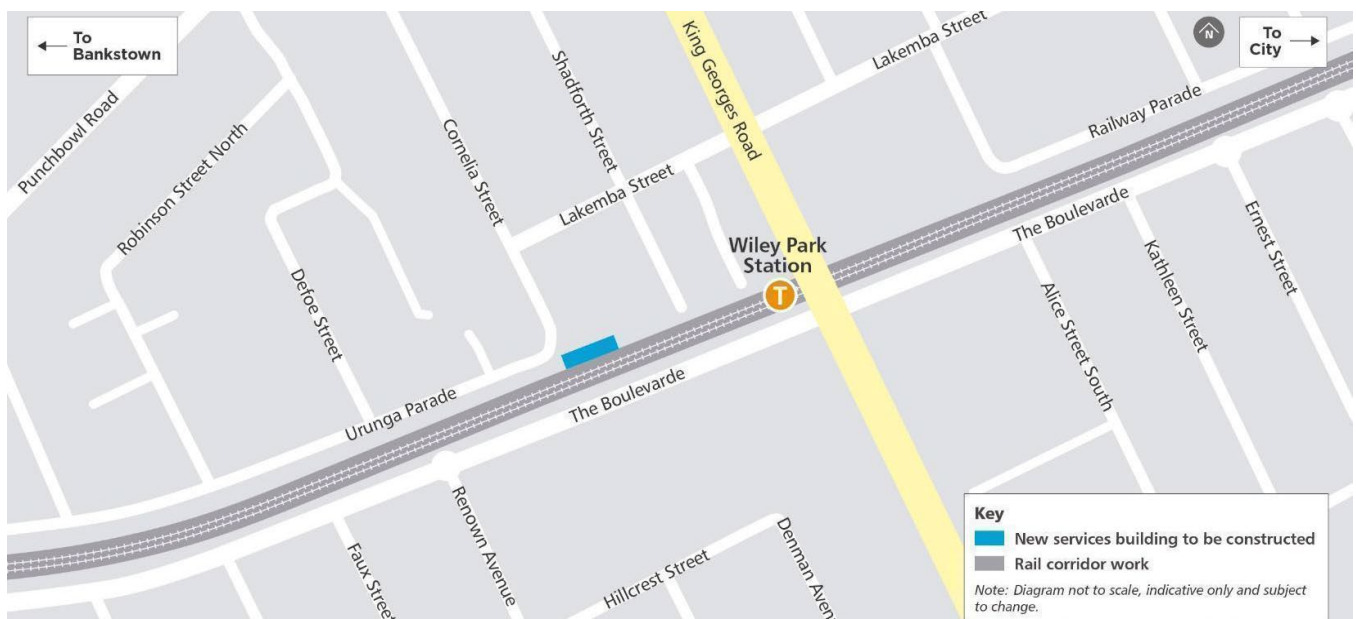
Planned work during the remainder of July

Before and after the shutdown, work will continue during standard construction hours, Monday to Friday 7am to 6pm and Saturday 8am to 6pm. Due to the nature of some activities and for the safety of workers, some work will also be completed outside of standard hours, including at night. Planned out-of-hours work following the shutdown are detailed in the table over the page.

Date / time	Details of work outside of planned rail shutdown
Standard construction hours	<ul style="list-style-type: none"> Defect rectification work Metro services building testing & commissioning Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing. De-vegetation and tree clearing throughout the rail corridor where required Delivery of plant and materials including preparatory activities for upcoming out-of-hours work Securing galvanised steel troughing lids Testing and jointing cables within the rail corridor Ongoing termination work at Metro services building Local cabling for padmount Fit out of station equipment rooms and buildings Trackside equipment work and cabling activities
Mid-week between 6pm and 7am outside of the July shutdown (for no more than 3 nights per week)	<ul style="list-style-type: none"> Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing Delivery of plant and materials including preparatory activities for upcoming out-of-hours work

Equipment used for all the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.





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Notification – Punchbowl to Bankstown

July 2023

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Location	Details of work during the shutdown - from Thursday 6 July to Sunday 16 July
Punchbowl to Bankstown (along the rail corridor)	<ul style="list-style-type: none"> • Installation of new underground services around station and along corridor, including excavation, rock breaking and trenching work • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work • Temporary removal of parking along South Terrace at Bankstown between Gardenia Avenue and Scott Street near rail access gate • Temporary removal of parking along South Terrace at Punchbowl between Scott Street and Loder Lane near rail access gate • High voltage cabling in the rail corridor • Fit and strap covers to galvanised steel troughing along rail corridor • Anti-climb screen installation and associated activities • Fit out of station equipment rooms and buildings • Trackside equipment work and cabling activities
Punchbowl Station and surrounding areas & Concourse	<ul style="list-style-type: none"> • Replacement of platform tactiles • Installation of Sydney Trains interim cameras • Installation of brackets on station platform • Voltage Limiting Device (VLD) delivery and VLD negative cabling work at both stations • Fit out of station equipment rooms and buildings • Trackside equipment work and cabling activities
Punchbowl substation, off South Terrace near Scott Street	<ul style="list-style-type: none"> • Dress of high voltage structures • Installation of equipment and cables

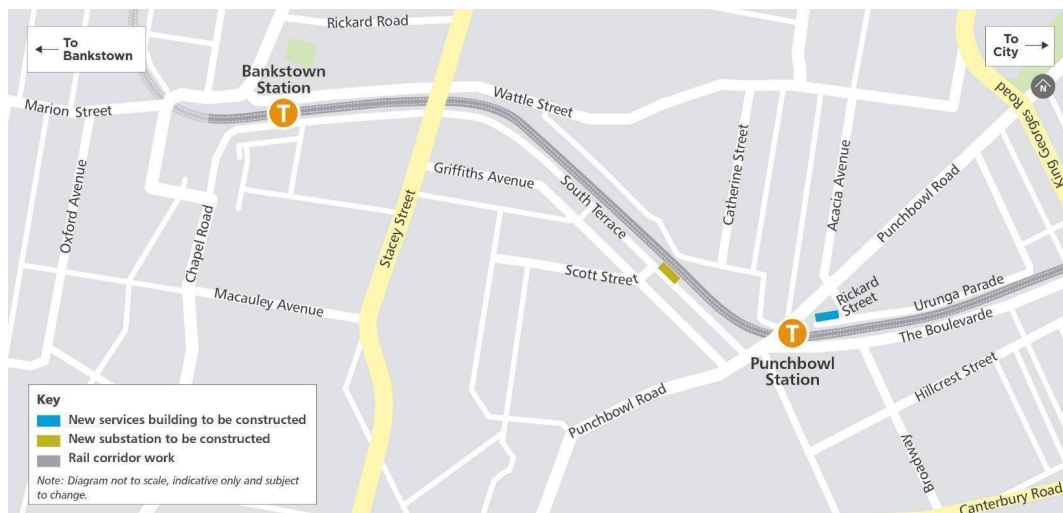
Planned work during the remainder of July

Before and after the shutdown, work will continue during standard construction hours, Monday to Friday 7am to 6pm and Saturday 8am to 6pm. Due to the nature of some activities and for the safety of workers, some work will also be completed outside of standard hours, including at night. Planned out-of-hours work following the shutdown are detailed in the table over page.

Date / time	Planned work during the remainder of July
Standard construction hours	<ul style="list-style-type: none"> • Defect rectification work and continuation of lift shaft work at station • Rectification work at Metro services building • Testing & commissioning at station and Metro services building • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work • Securing galvanised steel troughing lids • Testing and jointing cables within the rail corridor • Local cabling for padmounts at Punchbowl and Bankstown • Ongoing termination work at services buildings at Punchbowl and Bankstown • Detailed excavations, bringing in and removing materials at the substation • Traffic controllers to facilitate truck movements onto South Terrace • Installing conduits, drainage, and cables • Fit outs of buildings and services and trackside equipment work • Installation of fencing and landscaping
Mid-week between 6pm and 7am outside of the July shutdown (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work

Equipment used for the above work will include excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, sucker trucks, delivery vehicles, borehole drillers, rollers, generators, whacker packers, dump trucks, wood chippers, mulchers, grass cutters, telehandlers, crane trucks, drilling rigs, lifting machinery, elevated work platforms, bobcats, concrete pumps, cable pulling equipment, compactors, lighting towers, forklifts, chainsaw, water carts, vibrating plates, crane 400T, franna crane, elevated work platform, concrete pump, excavator and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers. **Where temporary footpath changes, car parking removal or lane closures are required for work, traffic control, pedestrian detours and signage will be in place to assist the community.**



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R4.4 Validation Report

WK36 Local Possessions Works

Document and Revision History

Document Details	
Title	R4.4 Validation Report
Client	Sydney Metro City & Southwest
JHLOR JV contract no.	K44

Revisions

Revision	Date	Description	Prepared by	Reviewed by
0	8 March 2023	Prepared for R4.4	Zhengyi Zhang	Andre Kruize

Management reviews

Review date	Details	Reviewed by

Controlled: NO

Copy no.:

Uncontrolled: YES

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 R4.4 (b) The validation report must be submitted to the EPA fortnightly from the commencement of the works permitted by L5.6 & L5.7 by no later than 2 business days from the end of each fortnight. 4

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Introduction

This validation report has been prepared for out-of-hour works carried out over 6th and 7th March 2023 in Week 36 over two nights during a Local Possession Works under Track Occupancy Authority (TOA) condition L5.6 – Works Approved Outside of Standard Construction Hours - Local Possessions. The Local Possession works were undertaken at the following location:

- South of 32 to 33 Urunga Parade, Punchbowl NSW 2196.

R4.4(a)

1. **Confirmation that the equipment used to undertake the works was as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite**

The assessment prepared for the works included modelling for the following plant and equipment:

- Milling machine,
- Sprayer,
- Tipper,
- Roller,
- Skid steer
- Light Tower

2. **A copy of the community notification required under Condition L5.12**

A copy of the community notification required under Condition L5.12 is appended as Attachment 2.

3. **Noise monitoring as required by L5.8(d)**

Week 36 Night Local Possession Works attended noise monitoring was carried out adjacent to 32 to 33 Urunga Parade, Punchbowl during the night shift on 6th March 2023. Weather was good. Please refer to Attachment 1 – Noise Monitoring below for results of noise monitoring.

4. **Details of any exceedances of predicted noise levels;**

No exceedance of predicted noise levels were recorded during attended monitoring sessions during the works on Week 36.

Attended noise monitoring showed that the LAeq15min for general construction activities was 64.2 dB

5. **Details of the noise and vibration mitigation measures that were implemented as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite**

The mitigation measures that were implemented included:

- The Engineer in charge of the works briefed the works team on the OOHW.
- Works occur within the hours agreed in the JHLOR OOHW Permit
- Where possible, all plant positioned so that the exhaust (or noisiest side of the plant) is pointing away from sensitive receivers.
- The engine of any plant is to be turned off when not in use
- Workers are not to shout, slam doors, drop objects or make any other unnecessary noise
- Workers are to be mindful of residents when mobilizing and demobilizing

Additional mitigation measures in accordance with the Sydney Metro Construction Noise and

Vibration Strategy were implemented which included:

- Letter box drops
- Attended noise monitoring
- Respite for receivers with potential noise exceedance of over 20dB and alternative accommodation offered for receivers with potential noise exceedance of over 30dB.

6. The justification required under L5.6 for the carrying out of works outside of standard construction hours in L5.1.

The works carried out on Week 36 were completed under L5.6 as carrying out these works and activities during standard construction hours as specified in L5.1 would cause unacceptable risks to construction personnel safety and railway network operational reliability. The works could only be safely conducted during a rail possession/track occupancy authority (TOA) due to works occurring within the rail corridor and inside the danger zone.

All feasible and reasonable at-source noise controls were implemented in accordance with Condition L4.1, and noise mitigation measures were implemented in accordance with JHLORJV's CNVIS and Interim Construction Noise Guideline (DECC 2009).

R4.4 (b) The validation report must be submitted to the EPA fortnightly from the commencement of the works permitted by L5.6 & L5.7 by no later than 2 business days from the end of each fortnight.

This R4.4 Validation report has been submitted to EPA by no later than two business days after the end of the fortnight.

Attachment 1 – Noise Monitoring

Reference Number	Noise Catchment Area*	Monitoring Location (Address)	Attended or Continuous	Weather	Date	Time (hrs)	Duration of Works	Construction Activities	Audible noise from SMC construction activities	Main source of noise	Highest LAeq 15min in work period	Highest LA _{Max} in work period	Period	Predicted noise level LAeq,15min	Compliant	Comments
1	10	Between 32 & 33 Urunga Parade, Punchbowl	Attended	Good	06/03/23	23:10 to 23:25	5 hours	23:15 to 03:00 – Milling asphalt on existing hi-rail pad.	Yes	Milling attachment to Bobcat	64.2	75.2	Night	74	Yes	<ul style="list-style-type: none"> RBL: 41 -9.8 dB relative to prediction The LAeq15min value of 64.2dB was due to general construction noise between the hours of 22:00 and 05:00. Construction activities conducted during local possession under Track Occupancy Authority (TOA) due to activities being in the danger zone. Respite offers (RO) and alternate accommodation (AA) provided to residents.

Attachment 2 – Community Notification

Community Notifications were provided to residents of Punchbowl.
Please refer to the following community notification for works undertaken at Punchbowl.



City & Southwest

Keeping you informed

My contact information

Name

Email

Phone

Date



1800 171 386 Community information line open 24 hours



southwestmetro@transport.nsw.gov.au



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



Translating and Interpreting Service

If you require the services of an interpreter, please contact the **Translating and Interpreting Service** on **131 450** and ask them to call **Sydney Metro** on **1800 171 386**. The interpreter will then assist you with translation.

Se avete bisogno dell'ausilio di un interprete, vi preghiamo di contattare il **Servizio di Traduzione ed Interpretariato** al numero **131 450** e chiedere di chiamare **Sydney Metro** al numero **1800 612 173**. L'interprete vi assisterà nella traduzione.

আপনার, একজন দোভাষীর (ইন্টারপ্রেটার) সেবা-সাহায্য আবশ্যিক হলে, অনুগ্রহ করে 131 450 নং এ **ট্রান্সলেটিং এন্ড ইন্টারপ্রেটিং সার্ভিস** এর সাথে যোগাযোগ করুন, এবং 1800 171 386 নং এ **সিডনী মেট্রো** কে কল করতে তাদের বলুন। তখন অনুবাদ/ভাষান্তরে, দোভাষী আপনাকে সাহায্য করবে।

如果您需要翻译服务, 请致电131 450 翻译和口译服务, 让他们打1800 171 386给悉尼地铁, 翻译员然后将帮助您进行翻译。

إذا كنتم بحاجة إلى خدمات مترجم، يرجى الاتصال بخدمة الترجمة الكتابية والشفهية على الرقم 131 450 واطلبوا منهم الاتصال بمترو سيدني على الرقم 1800 171 386. وبعد ذلك سيقوم المترجم بمساعدتكم في الترجمة.

Εάν χρειάζεστε τις υπηρεσίες διερμηνέα, παρακαλείστε να επικοινωνήσετε με την **Υπηρεσία Μεταφραστών και Διερμηνέων** στο **131 450** και ζητήστε τους να καλέσουν το **Sydney Metro** στο **1800 171 386**. Ο διερμηνέας θα σας βοηθήσει στη μετάφραση.

통역서비스가 필요하시면, 번역 및 통역 서비스 (**Translating and Interpreting Service**) 전화 **131 450** 에 연락하시어 **Sydney Metro** 전화 **1800 171 386** 에 연결해달라고 요청하십시오. 통역관이 통역을 도와 드릴 것입니다.

Nếu quý vị cần dịch vụ thông dịch viên, xin liên lạc **Dịch vụ Thông Phiên Dịch (Translating and Interpreting)** ở số **131 450** và yêu cầu gọi **Sydney Metro** ở số **1800 171 386**. Sẽ có thông dịch viên giúp cho quý vị việc thông dịch.

यदि आपको दुभाषिणी की सेवाओं की ज़रूरत है, तो कृपया अनुवाद एवं दुभाषिया सेवा (**Translating and Interpreting Service**) से **131 450** पर संपर्क करें और उन्हें सिडनी मेट्रो **1800 171 386** पर कॉल करने का निवेदन करें। फिर दुभाषिया अनुवाद में आपकी मदद करेगा।

*Если Вам необходима помощь переводчика, свяжитесь, пожалуйста, с переводческой службой **Translating and Interpreting Service по телефону 131 450** и попросите их соединить Вас с **Сидней Метро (Sydney Metro) по номеру 1800 171 386** Затем переводчик поможет вам с переводом*

หากท่านจำเป็นต้องใช้บริการล่าม โปรดติดต่อบริการแปลและล่าม **Translating and Interpreting Service** ที่ **131 450** และขอให้หน่วยงานดังกล่าวโทรหา **Sydney Metro** ที่ **1800 171 386** หลังจากนั้นล่ามจะช่วยท่านเกี่ยวกับการแปล

如果您需要口譯員的服務, 請致電**131 450**聯絡翻譯和口譯服務, 要求他們致電 **1800 171 386**給悉尼地鐵 (**Sydney Metro**)。然後口譯員將會協助您翻譯。

EPL 21147

R4.4 Validation Report

WE42 Rail Possession

Segregation Fence Bolt Installation (into Piles & Bridge Planks), OHW Portal, Stacey St Bridge Screens, DCSI/GST Frame & Slab Installation. Signal & OHW Commissioning of Crossovers 262 & 264.

WE43 Rail Possession

Segregation Fence Bolt Installation (into Piles & Bridge Planks), Segregation Fence Post and Panel Installation, Church St Bridge Screen, Duke St Bridge Screen, CSR/ULX Installation, OHW Footing Construction and Portal Structure Installation, Marrickville Sewer Design Investigation

Document and Revision History

Document Details	
Title	R4.4 Validation Report
Client	Sydney Metro City & Southwest
JHLOR JV contract no.	K44

Revisions

Revision	Date	Description	Prepared by	Reviewed by
00	27/04/2023	Prepared for R4.4	Andre Kruize	Zhengyi Zhang

Management reviews

Review date	Details	Reviewed by

Controlled:	NO	Copy no.:	Uncontrolled: YES
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R4.4 (b) The validation report must be submitted to the EPA fortnightly from the commencement of the works permitted by L5.6 & L5.7 by no later than 2 business days from the end of each fortnight.5

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Attachment 2 – April Community Notification for WK42 & 439

Introduction

This validation report has been prepared in accordance with EPL 21147 Condition R4.4 for out-of-hour works carried out over the following period:

- 15th and 16th of April 2023 during Weekend 42 Rail Possession (WE42) over 2 days and 1 night (single activity at Stacey St); and
- 21st to 23rd of April 2023 during Weekend 43 Rail Possession (WE43) over 3 days.

Works were carried under condition L5.6 - Local Possessions at the following locations:

- Weekend 42 Rail Possession
 - Segregation Fence Drilling into Piles and bridge planks (prior to post & panel installation)
 - From Wooley Lane to Albermarle St
 - From Ewart St to Hurston Park Station
 - From Melford Rd to Canterbury Rd
 - From Broughton St (adjacent to Cooks River) to Campsie Station
 - Vegetation mulching of batters
 - Livingstone Rd bridge (city side) and
 - Albermarle St bridge (country side)
 - Overhead Wiring, piling and portal installation
 - 96 Bankstown, South Terrace, Punchbowl
 - Bridge Works
 - Stacey Street Bridge screen installation
 - Signal and OHW commissioning at Crossovers 262 & 264.
 - Campsie
 - CSR Works – DSCM Frame and GST installation
 - South Terrace between Punchbowl and Bankstown.
- Weekend 43 Rail Possession
 - Segregation Fence Post and Panel Installation
 - Ewart St to Hurlstone Park
 - Foord Ave to Canterbury Rd
 - Canterbury Rd to Duke St
 - Bridge Works. Post installation
 - Church St Bridge
 - Duke St Bridge
 - CSR Works – Earthing Pit and GST & Dropper installation
 - Albermarle St
 - Loch St and Belmore Ped Tunnel
 - Stacey St area
 - Bankstown (city side of platforms)
 - Overhead Wiring Insulation
 - Gardenia Ave
 - Sewer Design Investigation
 - Illawarra Rd
 - ULX
 - Stacey St Bridge area

Refer to attachment 1 for monitoring results.

R4.4(a) For activities permitted under Condition L5.6 & L5.7, a validation report must be submitted to the EPA that includes the following detail:

1. Confirmation that the equipment used to undertake the works was as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite

The assessment prepared for the works included modelling for the following plant and equipment:

- Excavators 3T, 6T, 13T and 24T (inc auger/piling & jack hammer attachments)
- Balloon tyre dump trucks (Hydrema)
- Lighting towers (WE42 only)
- Light vehicles
- Heavy Trucks
- Handheld powered and non-powered tools
- Vac Trucks
- EWP/telehandler
- Front-end loader
- Multicranes
- 60T Crane
- Concrete truck and line pump
- Portable Generators
- Compressors
- Compactor
- Bogie
- Water Pumps
- 4T Dumpy
- Mulcher attachments (WE42 only)
- Commociao Geo 205 Drill Rig (WE42 only)

2. A copy of the community notification required under Condition L5.12

Copies of the community notifications as required under Condition L5.12 are appended in Attachment 2.

3. Noise monitoring as required by L5.8(d)

WE42 works. Real time noise monitoring was carried out at the following locations (inside the corridor) throughout the project;

- 11 m North of 37 Kays Ave East, 26 m west of Albermarle St, Marrickville
- 35 m north of 38 South Parade, Campsie
- 28 m southwest of 75 Stansfield Ave, Bankstown
- 40 m west of Stacy Street, 10 m north of South Terrace, Bankstown

WE43 works. Real time noise monitoring was carried out at the following locations (inside the corridor) throughout the project;

- 25 m southwest of 166 Wattle St, 94 m east of Stacy Street, Bankstown
- 4 m south of 94 Church St South, 25 m west of Church St, Canterbury
- 2 m north of 73 Ewart St, 103 m northwest of Terrace Rd, Dulwich Hill
- 11 m North of 37 Kays Ave East, 26 m west of Albermarle St, Marrickville

Refer to attachment 1.

4. Details of any exceedances of predicted noise levels;

Throughout the works carried out over WE42 and WE43, there were no exceedances of the noise predictions as a result construction activities.

There were no noise complaints from the community as a result construction activities.

5. Details of the noise and vibration mitigation measures that were implemented as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite

The mitigation measures that were implemented included:

- All workers briefed at OOHW prestart meeting.
- Works occur within the hours agreed in the OOHW only.
- As far as is practical, positioning plant so that the exhaust (or noisiest side of the plant) is pointing away from sensitive receivers.
- Plant is to be turned off when not in use
- Workers are not to shout, slam doors, drop objects or make any other unnecessary noise
- Workers are to be mindful of residents when mobilizing and demobilizing
- Noise mats are placed around standing equipment when positioned close to residents.

Additional mitigation measures in accordance with the Sydney Metro Construction Noise and Vibration Strategy were implemented which included:

- Letter box drops
- Noise monitoring
- Respite offers (RO) for receivers with potential noise exceedance of over 20dB and alternative accommodation (AA) offered for receivers with potential noise exceedance of over 30dB.

6. The justification required under L5.6 for the carrying out of works outside of standard construction hours in L5.1.

The works carried out on WE42 and WE43 were completed under L5.6 (Local Possessions), as carrying out these works and activities during standard construction hours (as specified in L5.1) would cause unacceptable risks to construction personnel safety; rail passenger and railways personnel safety and railway network operational reliability. These works could only be safely conducted during a rail possession as these construction activities occurring within the rail corridor/danger zone. All feasible and reasonable at-source noise controls were implemented in accordance with Condition L4.1, and noise mitigation measures were implemented in accordance with JHLORJV's CNVIS and Interim Construction Noise Guideline (DECC 2009).

R4.4 (b) The validation report must be submitted to the EPA fortnightly from the commencement of the works permitted by L5.6 & L5.7 by no later than 2 business days from the end of each fortnight.

This R4.4 Validation report has been submitted to EPA by no later than two business days after the end of the fortnight.

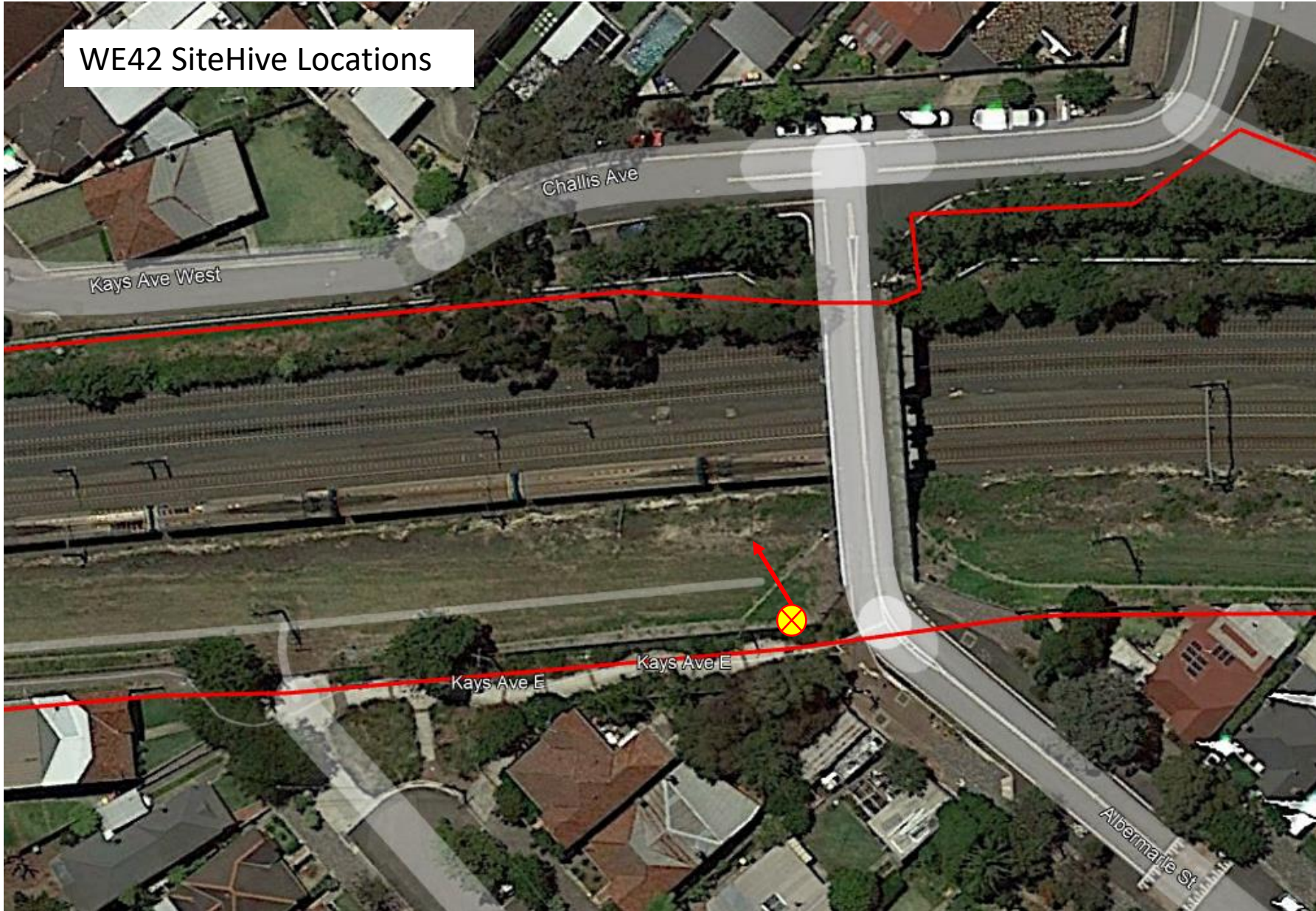
Attachment 1 – Noise Monitoring Results

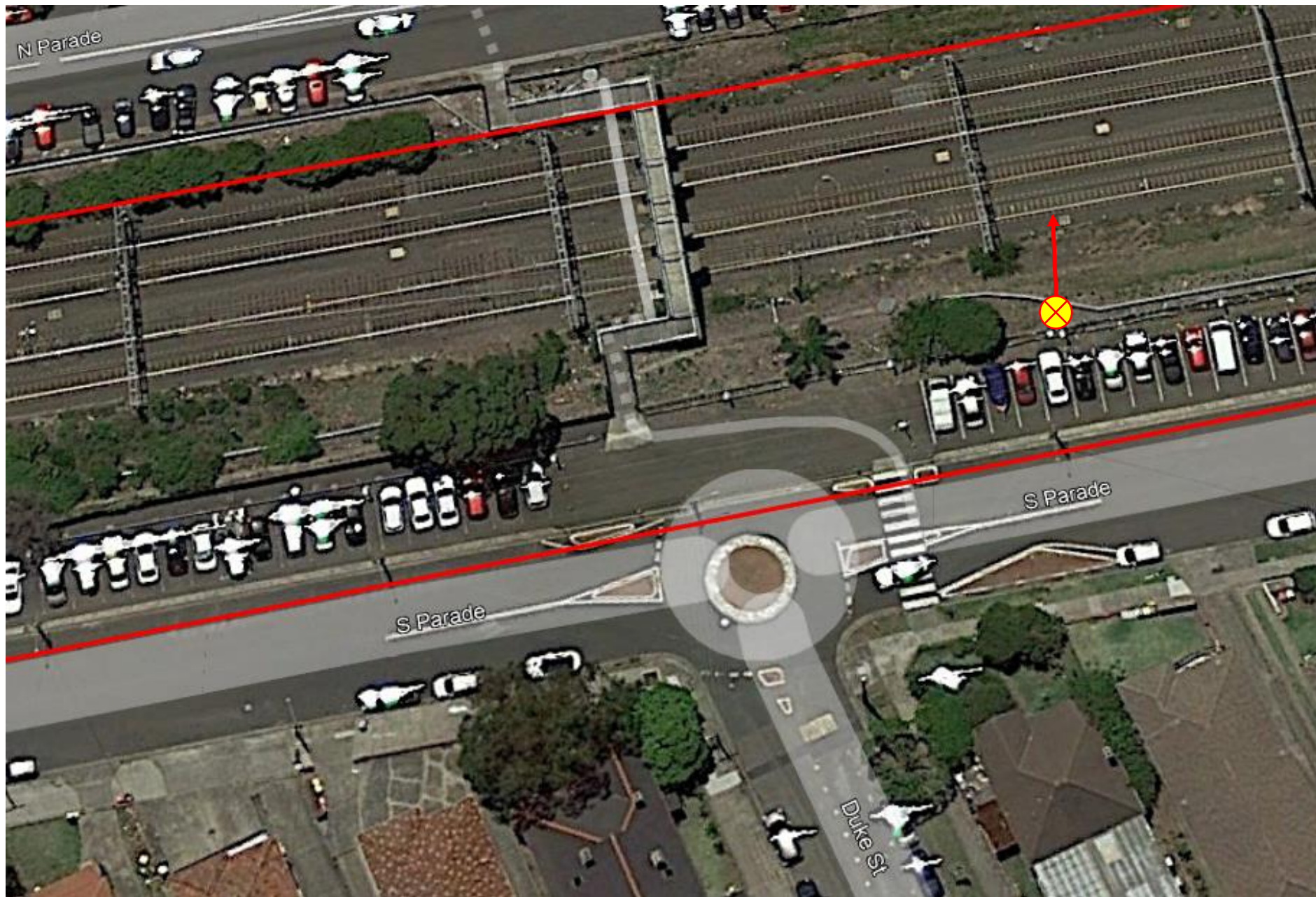
- Monitoring Result
- Monitoring Location

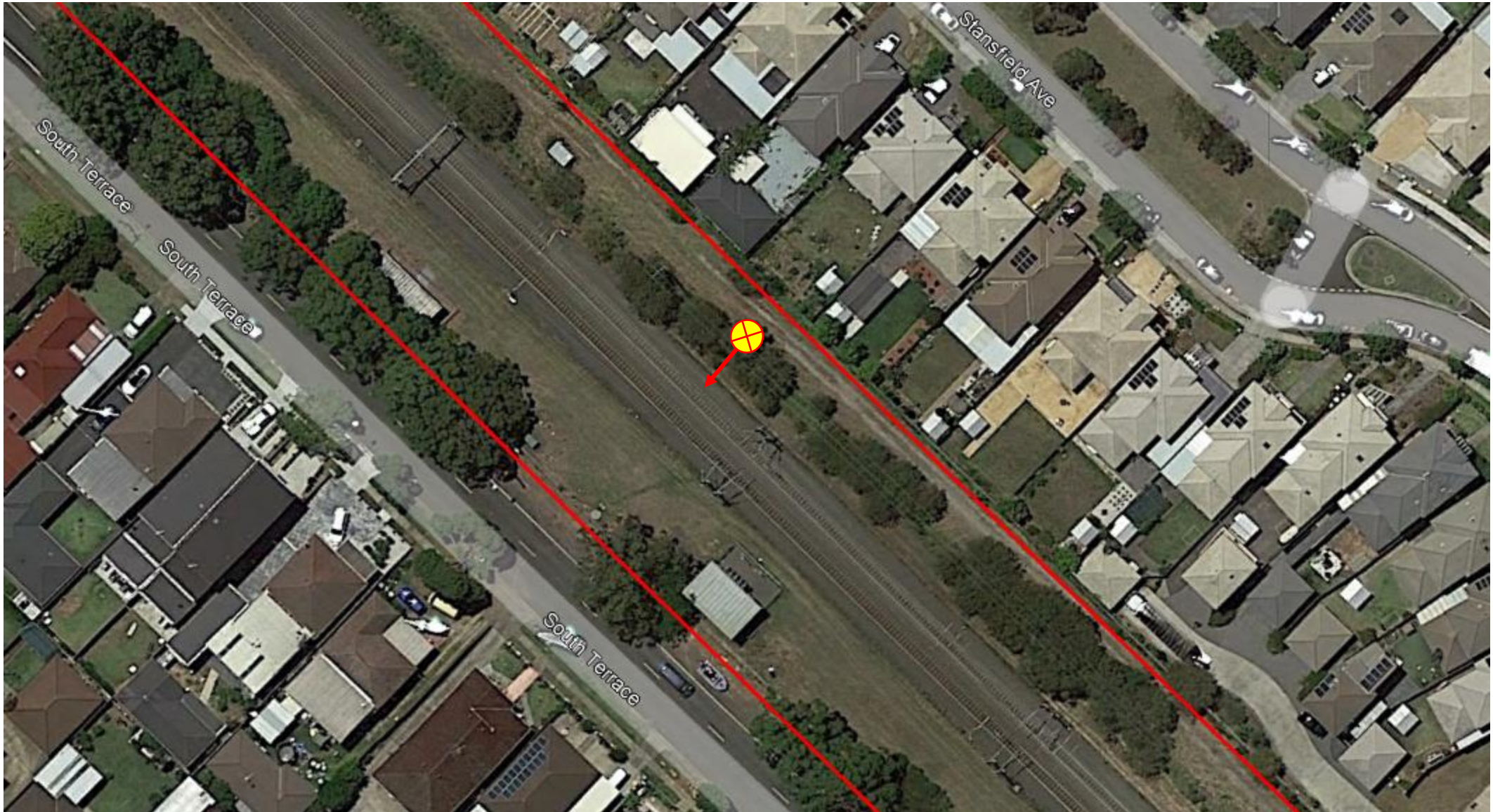
Table 1. Monitoring result for 15th and 16th of April 2023 during Weekend 42 Rail Possession (WE42) over ***2 days and 1 night***

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq 15min in work period	Highest LA _{Max} in work period	Predicted noise level LAeq,15min	Compliant	Comments
1	NCA 02 Realtime Monitoring 11 m North of 37 Kays Ave East, 26 m west of Albermarle St, Marrickville	15/04/2023	Day to Evening 7:00 am to 22:00 pm	Vegetation Clearing Bolt Installation	- Excavator - Mulching attachment - Powered Hand tool	65.415	95.777	67	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 65.415 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
2	NCA 05 Realtime Monitoring 35 m north of 38 South Parade, Campsie	15/04/2023	Day to Evening 7:00 am to 22:00 pm	Bolt Installation	- Powered Hand Tool	53.809	98.168	66	Yes	<ul style="list-style-type: none"> RBL: 36 LAeq15min below predictions. Highest LAeq15min value of 53.809 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
3		16/04/2023		Bolt Installation	- EWP - Powered Hand tool	60.949	98.339	66	Yes	<ul style="list-style-type: none"> RBL: 36 LAeq15min below predictions. Highest LAeq15min value of 60.949 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
4	NCA11 Realtime Monitoring 28 m southwest of 75 Stansfield Ave, Bankstown	15/04/2023	Day to Evening 7:00 am to 22:00 pm	OHW footing installation	- Excavator - Concrete Truck - Hydrema - EWP - Telehandler	65.047	89.698	68	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Highest LAeq15min value of 65.047 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
5		16/04/2023		OHW footing installation	- Excavator - Concrete Truck - Hydrema - EWP - Telehandler	67.268	89.562	68	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Highest LAeq15min value of 67.268 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
6	NCA11 Realtime Monitoring	15/04/2023	Day to Evening 7:00 am to 22:00 pm	Stacy Bridge Screen installation	- EWP - Powered Hand tool	67.203	94.565	68	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Highest LAeq15min value of 67.203 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
7	40 m west of Stacy Street, 10 m north of South Terrace, Bankstown	15/04/2023 To 16/04/2023	Night 22:00 pm to 7:00 am	Stacy Bridge Screen installation	- EWP - Powered Hand tool - Light Tower	61.975	88.285	67	Yes	<ul style="list-style-type: none"> RBL: 39 LAeq15min below predictions. Highest LAeq15min value of 61.975 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite was provided to residents.
8		16/04/2023	Day to Evening 7:00 am to 22:00 pm	Stacy Bridge Screen installation	- EWP - Powered Hand tool	64.637	96.149	68	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Highest LAeq15min value of 64.637 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.

WE42 SiteHive Locations







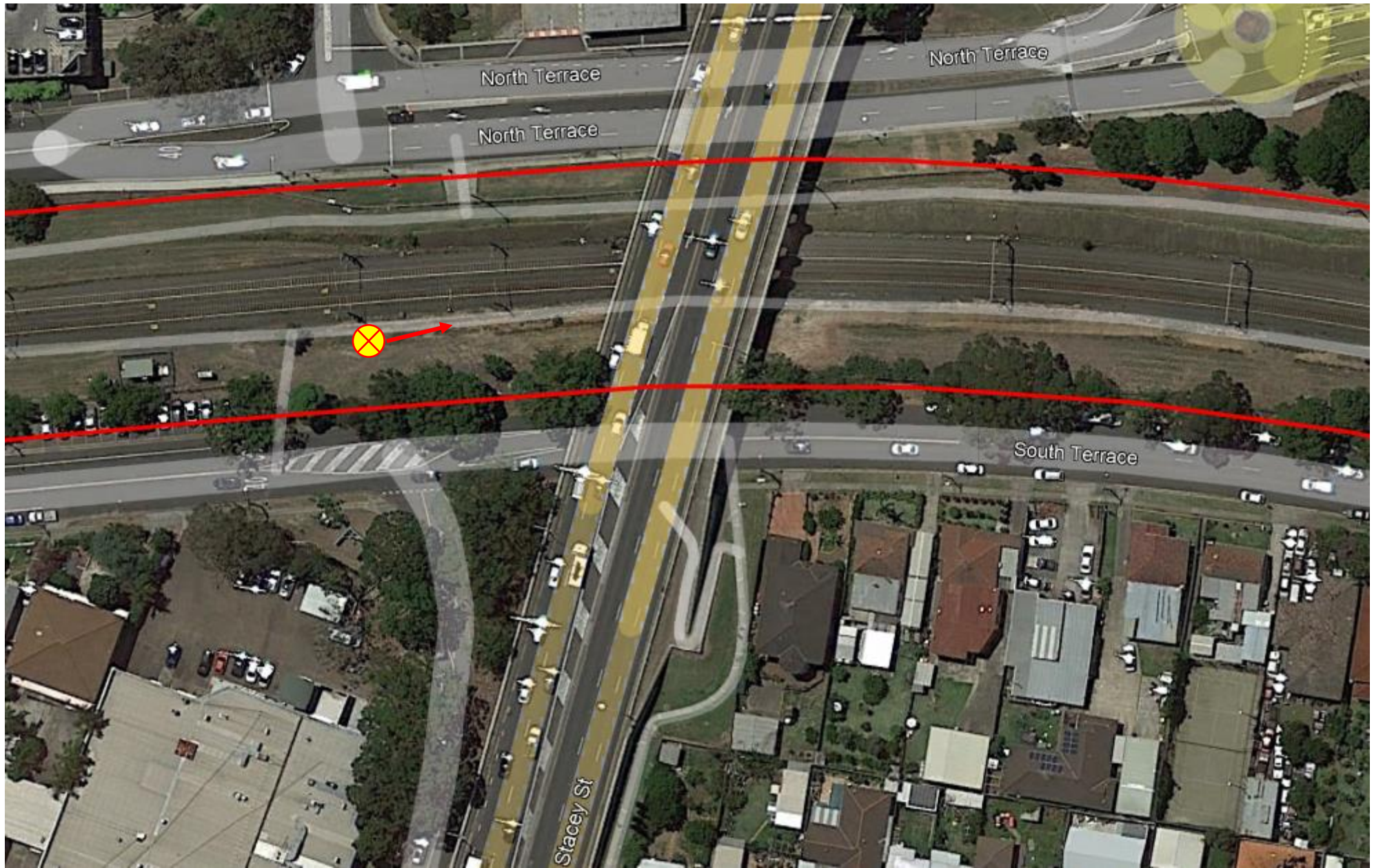
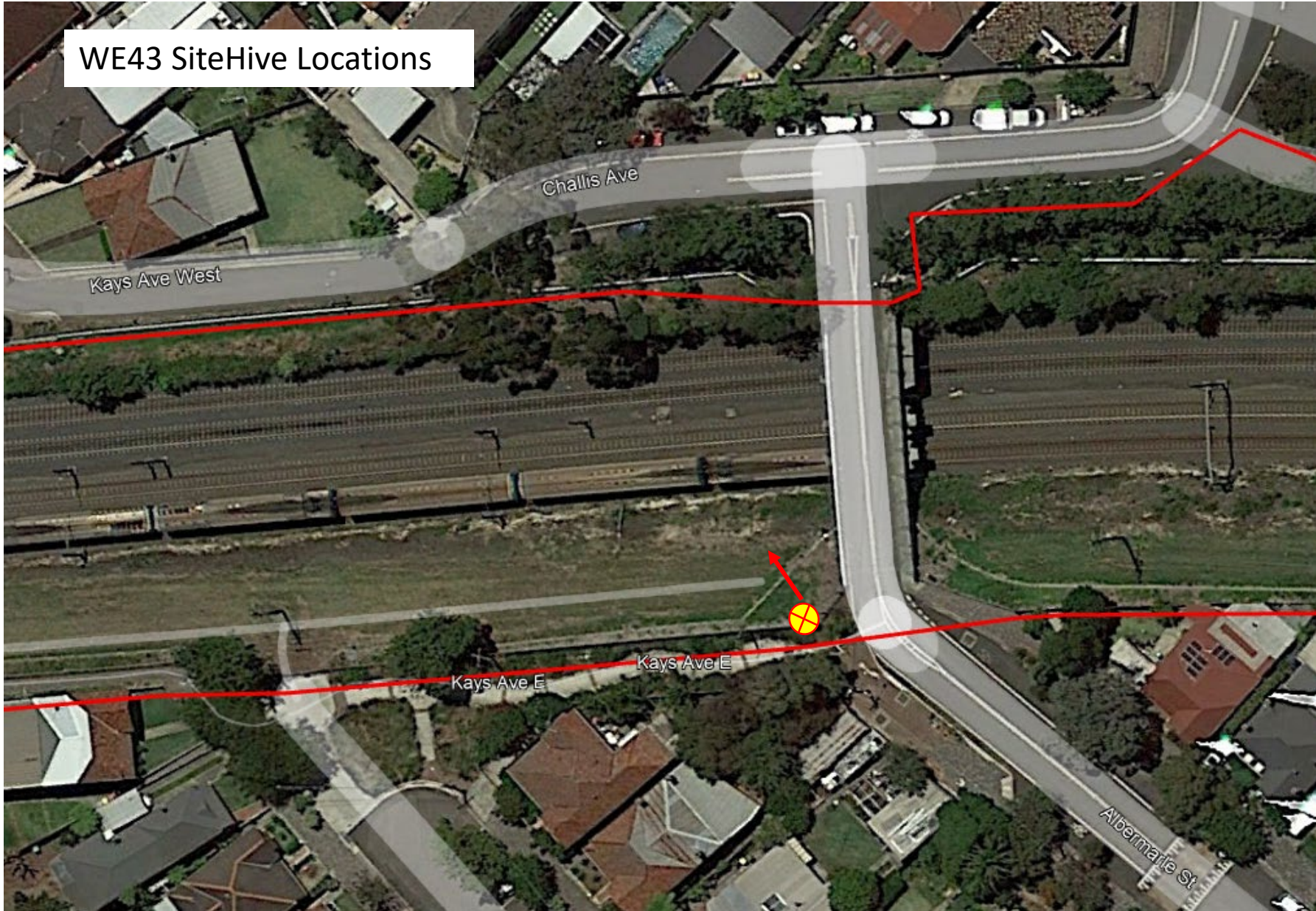


Table 2. Monitoring result for 21st to 23rd of April 2023 during Weekend 43 Rail Possession (WE43) over **3 days**

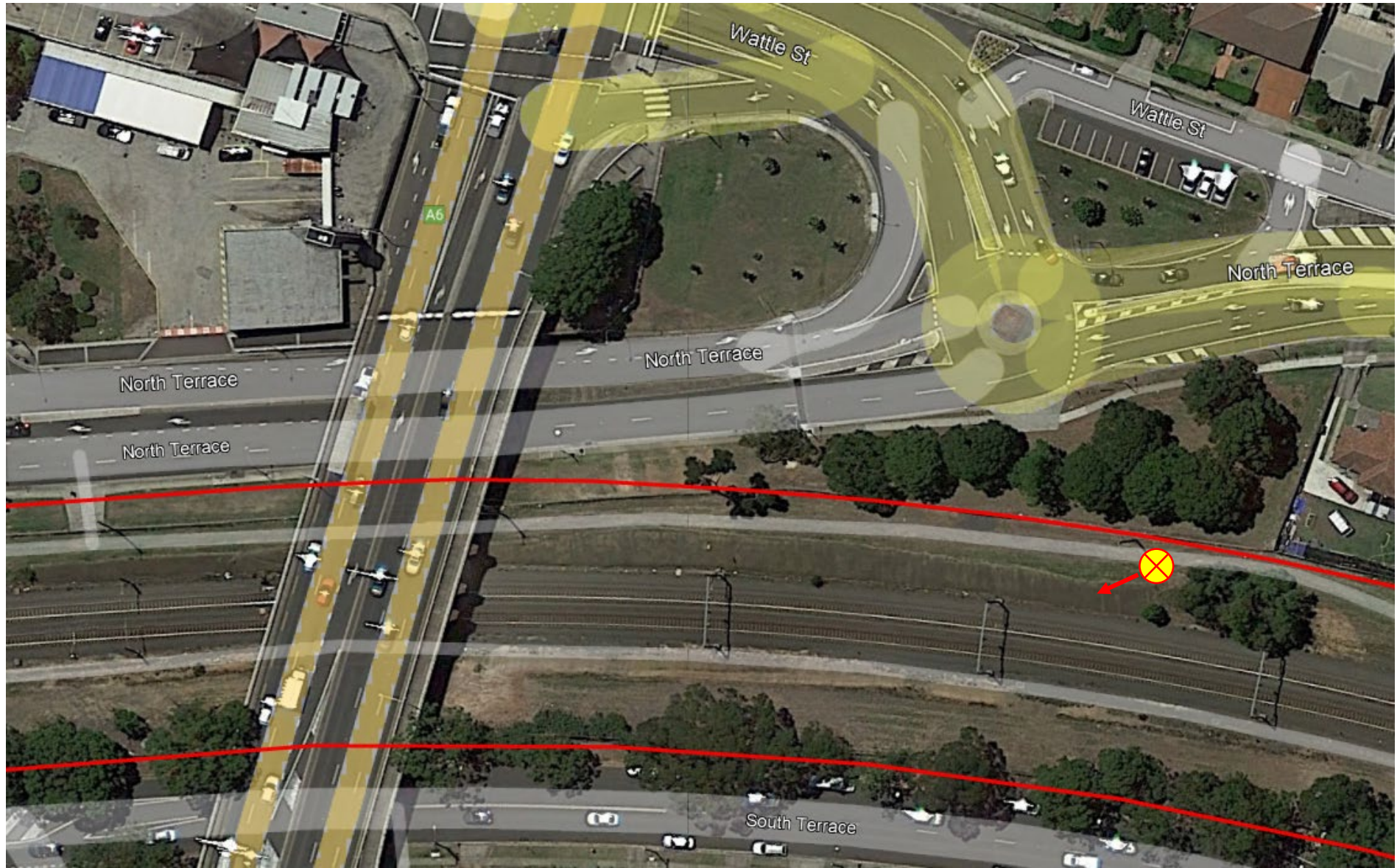
Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq 15min in work period	Highest LA _{Max} in work period	Predicted noise level LAeq,15min	Compliant	Comments
10	NCA 02	21/04/2023	Day to Evening 7:00 am to 22:00 pm	Segregation Fence Post & Panel	- Excavator - Powered Hand tool	52.755	85.003	68	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 52.755 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
11	Realtime Monitoring 11 m North of 37 Kays Ave East, 26 m west of Albermarle St, Marrickville	22/04/2023		Segregation Fence Post & Panel	- Excavator - Powered Hand tool	53.883	91.356	68	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 53.883 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
12		23/04/2023		Segregation Fence Post & Panel	- Excavator - Powered Hand tool	53.235	96.378	68	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 53.235 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
14	NCA 02	21/04/2023	Day to Evening 7:00 am to 22:00 pm	Segregation Fence Post & Panel	- Excavator - Powered Hand tool	53.43	86.454	68	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 53.43 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
15	Realtime Monitoring 2 m north of 73 Ewart St, 103 m northwest of Terrace Rd, Dulwich Hill	22/04/2023		Segregation Fence Post & Panel	- Excavator - Powered Hand tool	55.256	85.271	68	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 55.256 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
16		23/04/2023		Segregation Fence Post & Panel	- Excavator - Powered Hand tool	60.015	106.422	68	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 60.015 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
18	NCA 04	21/04/2023	Day to Evening 7:00 am to 22:00 pm	- Protection Screen Installation - Scaffold Installation	- 60 Tonne Crane - Powered Hand tool	57.439	98.852	71	Yes	<ul style="list-style-type: none"> RBL: 40 LAeq15min below predictions. Highest LAeq15min value of 57.439 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
19	Realtime Monitoring 4 m south of 94 Church St South, 25 m west of Church St, Canterbury	22/04/2023		- Protection Screen Installation - Segregation Fence Post & Panel Installation	- 60 Tonne Crane - Powered Hand tool - Excavator	60.470	90.979	71	Yes	<ul style="list-style-type: none"> RBL: 40 LAeq15min below predictions. Highest LAeq15min value of 60.470 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
20		23/04/2023		- Segregation Fence Post & Panel Installation	- Powered Hand tool - Excavator	51.427	96.663	71	Yes	<ul style="list-style-type: none"> RBL: 40 LAeq15min below predictions. Highest LAeq15min value of 51.427 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
22	NCA11	21/04/2023	Day to Evening 7:00 am to 22:00 pm	- ULX - Earthing Pit Installation	- Excavator - Jackhammer - Concrete Truck - Hydrema - Commoaio Geo 205 - Drill Rig	57.439	98.852	78	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Highest LAeq15min value of 57.439 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
23	Realtime Monitoring 25 m southwest of 166 Wattle St, 94 m east of Stacy Street, Bankstown	22/04/2023		- ULX	- Excavator - Jackhammer - Concrete Truck - Hydrema	60.470	90.979	78	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Highest LAeq15min value of 60.470 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.
24		23/04/2023		- ULX	- Excavator - Jackhammer - Concrete Truck - Hydrema	51.427	96.663	78	Yes	<ul style="list-style-type: none"> RBL: 47 LAeq15min below predictions. Highest LAeq15min value of 51.427 dB due to general construction noise between the hours of 7:00 am and 22:00 pm. Respite and alternate accommodation are not triggered.

WE43 SiteHive Locations









Attachment 2 – April Community Notification for WK42 & 43

Community Notifications were provided to residents of Canterbury, Marrickville, Hurlstone Park, Dulwich Hill, Wiley Park, Belmore, Campsie and Punchbowl to Bankstown.

Please refer to the following community notifications for works undertaken at the previously stated locations.

Notification – Marrickville

April 2023

Sydney Metro is Australia’s biggest public transport project.

By 2030, Sydney will have a network of four metro lines, 46 stations and 113km of new metro rail.

Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024, then on to Bankstown within 12 months.

In April, work will continue along the corridor and at Marrickville Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Marrickville (along the rail corridor):	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Modification to Livingstone Road bridge including periodic lane closures and removal of the parking lane and footpath along Livingstone Road, and temporary parking removal along the southern side of Marrickville Avenue adjacent to the rail corridor
Around Marrickville Station	<ul style="list-style-type: none"> • Delivery, storage and removal of materials and plant through Wooley Lane, Riverdale Avenue and Victoria Road • Installation of fencing, galvanised steel troughing, cable service routes, electrical work variously around the station • Footpath work - The footpath and cycleway between Station Street and Victoria Road will remain closed • Contractor work at the Service Equipment Building • Ausgrid supply connection on Station Street
Services building site in the rail corridor, off Victoria Road	<ul style="list-style-type: none"> • Delivery, storage, and removal of materials and plant • Installation of fencing to the perimeter of the building • Installation of building services and equipment • Concreting work to the east of the building on Victoria Road • Excavation of Metro Services Building driveway • Victoria Road footpath work • Concrete truck deliveries and concrete pumps • Ongoing termination work • Local cabling for padmount
Substation site (off Randall Street behind Albermarle Street)	<ul style="list-style-type: none"> • Site mobilisation including using sections of Randall Street • Traffic control to facilitate truck movements from Livingstone Road into Randall Street • Installing glazed tiles on facade panels and anti-graffiti paint • Installing cables, cable supports, cable tray structure as well as mechanical and electrical fit out • Installing traction substation gates, doors, and permanent fencing • Installing streetscaping including driveways, kerbs, and footpaths, plus landscaping

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table on the next page.

Date / time	Details of out-of-hours (including night) work
Mid-week between 6pm and 7am Monday 3 April to Friday 28 April 2023 (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
Upcoming rail possessions: <ul style="list-style-type: none"> • Saturday 15 April to Sunday 16 April 2023 • Wednesday 20 April to Sunday 23 April 2023 • Wednesday 26 April to Friday 28 April 2023 	<ul style="list-style-type: none"> • Installation of Hearing Loops on Platforms 1 and 2 • Tactile rectification work • Installation of fencing • Electrical containment work • High voltage cabling at Wooley Lane and Illawarra Road overpass and rail corridor • Traction negative bar installation at Marrickville Station • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Installing fittings and adjustments to galvanised steel troughing, fixtures to segregation fence piles and cable pulling • Installation of security fencing • De-vegetation and tree clearing throughout the rail corridor where required

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Chris** or email LinewideMetro@transport.nsw.gov.au. For all other work please ask for **Julian** or email SouthwestMetro@transport.nsw.gov.au. **Thank you for your cooperation while we complete this essential work.**

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

Notification – Dulwich Hill

April 2023

Sydney Metro is Australia’s biggest public transport project.

By 2030, Sydney will have a network of four metro lines, 46 stations and 113km of new metro rail.

Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024, then on to Bankstown within 12 months.

In April, work will continue along the corridor and at Dulwich Hill Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Dulwich Hill (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Installation of cable service routes including cable pulling and rail access pads • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
Around Dulwich Hill Station	<ul style="list-style-type: none"> • Excavation, concrete and landscaping work within the station precinct • Installation of remaining glazing to new footbridge and stairs • Services and fit-out work at new footbridge including paving and ceilings • Delivery and installation of new lift equipment to footbridge • Construction of new platform and plaza rooms under footbridge • Remaining galvanised steel troughing installation
Services building site at Ewart Lane	<ul style="list-style-type: none"> • Concrete work including pouring and finishings • Earthing work around the padmount substation • Installation of external façade and solar panels to roof • Internal building fit-out work • Delivery and installation of equipment • Delivery of material and plant via Ewart Lane • Scaffolding installation and removal • Local cabling for padmount • Ongoing termination work
Substation site (off Randall Street behind Albermarle Street, Marrickville)	<ul style="list-style-type: none"> • Site mobilisation including using sections of Randall Street • Traffic control to facilitate truck movements from Livingstone Road into Randall Street • Installing glazed tiles on facade panels and anti-graffiti paint • Installing cables, cable supports, cable tray structure as well as mechanical and electrical fit-out • Installing traction substation gates, doors and permanent fencing • Streetscaping including driveways, kerbs, footpaths, plus landscaping

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

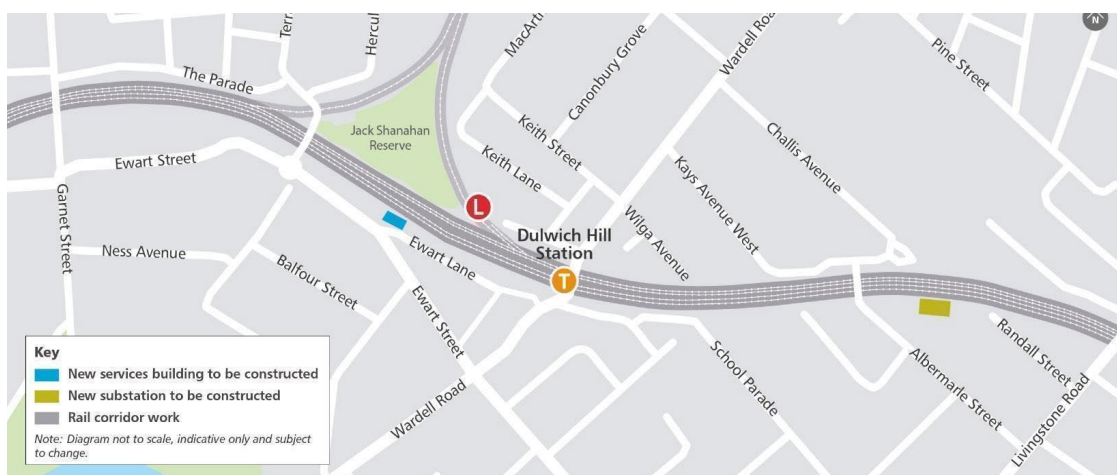
Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table over the page.

Date / time	Details of out-of-hours work
Mid-week between 6pm and 7am Monday 3 April to Friday 28 April 2023	<ul style="list-style-type: none"> Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing Delivery of plant and material including preparatory activities for upcoming out-of-hours work
Upcoming rail possessions: <ul style="list-style-type: none"> Friday 14 April to Sunday 16 April Thursday 20 April to Sunday 23 April 	<ul style="list-style-type: none"> Installation of glazed canopies over new stairs to platform and plaza Installation of drainage and downpipes to new footbridge Trackside equipment work including earthing and under line crossing (ULX) Completion of galvanised steel troughing within the rail corridor Platform drainage work Completion of brickwork under Stair 02 Asphalting on the platforms Platform furniture and equipment installation Cable pulling and services work within the rail corridor High voltage (HV) cabling Kays Avenue East to Ewart Street HV cabling in the corridor at Dulwich Hill Dressing, cleating and installing termination plates on the overhead wiring structures Activities associated with bridge upgrades including installation of anti-throw screen fixtures along Ness Avenue bridge involving temporary lane closures along Ness Avenue between Ewart Street and Terrence Road Delivery of plant and material including preparatory activities for upcoming out-of-hours work Installing fixtures to segregation fence piles Dressing, cleating and installing termination plates on overhead wiring structures Traction negative bar installation at the station

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Alana/Grace** or email LinewidthMetro@transport.nsw.gov.au. For all other works please ask for **Claire** or email SouthwestMetro@transport.nsw.gov.au.

Thank you for your cooperation while we complete this essential work.

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

Notification – Hurlstone Park

April 2023

Sydney Metro is Australia’s biggest public transport project.

By 2030, Sydney will have a network of four metro lines, 46 stations and 113km of new metro rail.

Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024, then on to Bankstown within 12 months.

In April, work will continue along the corridor and at Hurlstone Park Station (weather and site conditions permitting).

Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Hurlstone Park (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Removal of trees, vegetation and asbestos throughout the rail corridor as required • Work associated with installation of future security fences (boundary fence) and segregation fences • High voltage relocation work • Installation of bridge anti-throw screens • Installation of fencing, cables and cable service route (CSR) and galvanised steel troughing (GST) • Modification work to bridges at Church Street footbridge including temporary removal of parking along Church Street cul-de-sac • Work associated with installation of fence panels including periodic lane closures along Melford Street between Hutton and Canberra Streets
Around Hurlstone Park Station	<ul style="list-style-type: none"> • Use of access gates and laydown areas at Keir Avenue, The Parade, Railway Street and Foord Avenue • Site investigations and surveys including (but not limited to) non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of construction plant and material • Asphaltting, drainage, and concreting work • Installation of balustrades and other finishing work, including artwork • Continuation of fencing work and galvanised steel troughing (GST) work • Footpath closures for footpath work with pedestrian and traffic detours in place under the direction of traffic control (residential access will be maintained) • High level containment work for electrical, communication and other services • Paving around the concourse and ceiling and glazing work at concourse and on stairs • Platform fencing work and platform equipment installation • Line marking and footpath work within the station precinct (for taxi, disabled and kiss & ride parking), resulting in loss of parking on Floss Street and Duntroon Street • Start of lift car installation, platform finishing works and pavements to back of platform 2 • Construction work to city side of Duntroon Street bridge including work to facilitate high voltage relocation
Services building site off Railway Street	<ul style="list-style-type: none"> • Site investigations and surveys including (but not limited to) non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of construction plant and material • Resurfacing of roadways following services investigation and installation, under traffic control guidance • Fibre-reinforced plastic (FRP) work around services building • Installation of structural steel, roofing & cladding requiring plant for installation • Services connections for chiller units • Services installation within building structures including cladding and doors to progress building works • Driveway slab construction (including kerbs, gutters, ACO drain, bollards, etc.) • Brick wall construction to the precinct area • Jackhammering and excavation work to facilitate structures and services installation, with required dust and noise mitigation measures in place • Ongoing power termination work • Local cabling for padmount

Location	Details of work during standard construction hours (daytime)	Continued
Substation site, off Hutton Street	<ul style="list-style-type: none"> • Site mobilisation and excavations • Installing cables, cable supports, and mechanical and electrical fit out • Traffic controllers to facilitate truck movements on Hutton Street • Installing glazed panels into the facade walls and anti-graffiti paint • Installing traction substation gates, doors, and permanent fencing • Installing streetscaping including driveways, kerbs, and footpaths, plus landscaping 	

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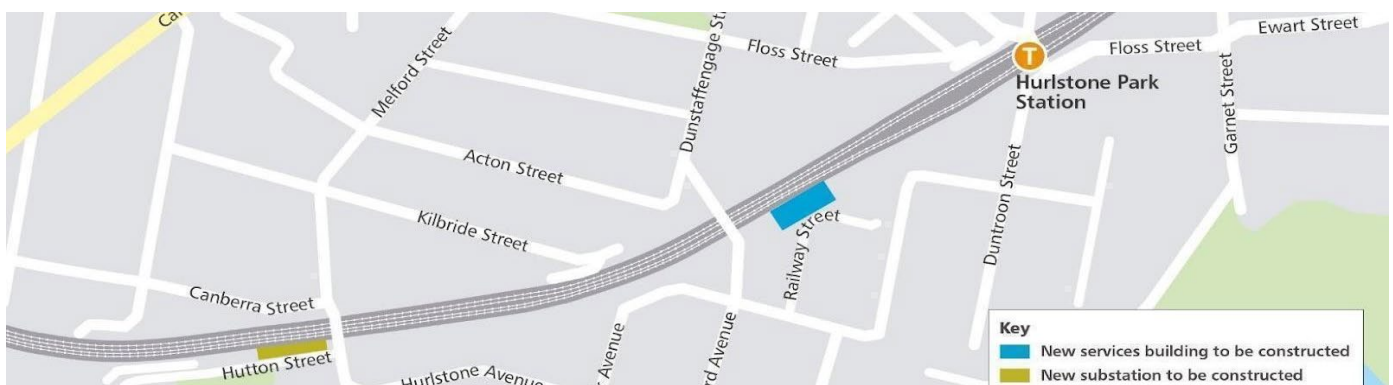
Out-of-hours work

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Date / time	Details of out-of-hours (including night) work
Mid-week between 6pm and 7am Monday 3 to Friday 28 April 2023 (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Concrete work associated with installing galvanised steel troughing, new cable routes, and bridge upgrades
Upcoming rail possessions: <ul style="list-style-type: none"> • Friday 14 April to Sunday 16 April • Thursday 20 April to Sunday 23 April 	<ul style="list-style-type: none"> • Various site investigations including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • High voltage relocation works and cabling in the corridor • Platform equipment, fencing and earthing installation • Platform asphaltting work • Use of Keir Avenue, The Parade and Ewart Street access points • Ongoing work at the Metro Services Building (MSB) as required • Glazed balustrade work and platform canopies • Temporary changes, changed pedestrian paths and traffic control to facilitate work • Service work including electrical, communications, plumbing and mechanical • Cable pulling work within rail corridor and installing fixtures to segregation fence piles • Activities associated with bridge upgrades including temporary lane closures along Foord Avenue between Burnett Street and Dunstaffnage Street • Parking changes around Floss Street • Temporary lane closures along Melford Street bridge between Canberra Street and Hutton Street and Canberra Street between Melford Street and Church Street • Modification work at Church Street footbridge including temporary closure of Church Street footbridge and temporary removal of parking along Church Street cul-de-sac

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Chris** or email linewideMetro@transport.nsw.gov.au. For all other works please ask for **Hilda** or email SouthwestMetro@transport.nsw.gov.au. Thank you for your cooperation while we complete this essential work.

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Notification – Canterbury

April 2023

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Passenger services from Chatswood to Sydenham will commence in 2024, then on to Bankstown within 12 months.

In April work will continue along the corridor and at Canterbury Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Canterbury (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Modification work to bridges at Church Street footbridge including temporary removal of parking along Church Street cul-de-sac • Electrical work within rail corridor
Around Canterbury station	<ul style="list-style-type: none"> • Storage and removal of materials and plant • Station equipment room cabinet work • Installation of drainage and services, concreting, steel and brick work, cladding, (a partial lane closure may be required during this period, signage and traffic control will be in place) • Glazing of footbridge, safety fencing and stair canopy, and structural steel infill for footbridge glazing for motorised sliding door • Concourse civil work, retail cladding, platform fencing and work on the Station buildings • Broughton Street footpath and electrical work and furniture installation • Brickwork, structural steel and cladding installation at Metro Services Building (MSB) • Installation of raised access and padmount flooring and internal painting and sealing at the MSB • MSB roofing, excavation, gutter, and downpipe work • Installation of water services, doors, roller doors, switchboards, solar panels, roof safety system, inground and above ground services, fencing, scaffolding and modification at the MSB • Brickwork installation on Platforms 0 and 1 • Installation of louvre doors for the mechanical room • Installation of lifts equipment and boundary fencing • Electrical containment installation on platforms and the pedestrian ramp • Installation of light fittings and building services on platforms • Demobilisation of amenities from carpark and 6 Charles St and 6 Broughton St storage areas • Local cabling for padmount • Ongoing termination work at services building
Former Bowling Club	<ul style="list-style-type: none"> • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Temporary parking impacts on Close Street • Vegetation management
Substation site off Hutton Street	<ul style="list-style-type: none"> • Site mobilisation and excavations • Installing cables, cable supports, and mechanical and electrical fit out • Traffic controllers to facilitate truck movements on Hutton Street • Installing glazed panels into the facade walls and anti-graffiti paint • Installing traction substation gates, doors, and permanent fencing • Installing streetscaping including driveways, kerbs, and footpaths, plus landscaping
Other areas	<ul style="list-style-type: none"> • Cable testing and repair work at the joint bay on Cooks Avenue and Onslow Lane (including Onslow Lane)

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / time	Details of out-of-hours work and work during planned rail shutdowns
<p>Mid-week between 6pm and 7am Monday 3 to Friday 28 April 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Electrical work on the Metro Services Building • Roofing, brick and various civil work • External Anti-Graffiti painting • Installation of signal equipment and cable pulling • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Concrete work associated with bridge upgrades
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 14 April to Sunday 16 April • Thursday 20 April to Sunday 23 April • Wednesday 26 April to Friday 28 April 2023 	<ul style="list-style-type: none"> • Installation of glazing at the footbridge and concourse • Electrical and building work at the concourse • Installation of cladding on Metro Services Building • Glazing installation for the lift canopy • Brickwork cleaning under stairs and staircase work • Installation of fences on the platform • Tile rectification on platforms • Installation of trackside equipment on Platform 2 • Piling work between ARTC and Bankstown tracks • Pedestrian fence installation on Canterbury Road and Broughton Street • Cable pulling work within rail corridor • Temporary parking removal on Charles Street • Installation of tiles, rectifying defects, and painting at substation • HV cabling in rail corridor • Traction negative bar installation at Canterbury Station • Installing fixtures to fence piles, over-head-wire adjustments, and signal work • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Temporary removal of parking along Broughton Street intersection with John Street • Modification work at Church Street footbridge including temporary closure of Church Street footbridge including temporary removal of parking along Church Street cul-de-sac. Pedestrian diversions via Church Street, Tincombe Street, Canterbury Road and the public footpath between the rail corridor and the former Canterbury Bowls Club • Bridge upgrade work including installation of anti-throw screen fixtures along Charles Street bridge and Wairoa Street bridge • Temporary lane closures along Charles Street intersection with Broughton Street and Wairoa Street between East and South Parade

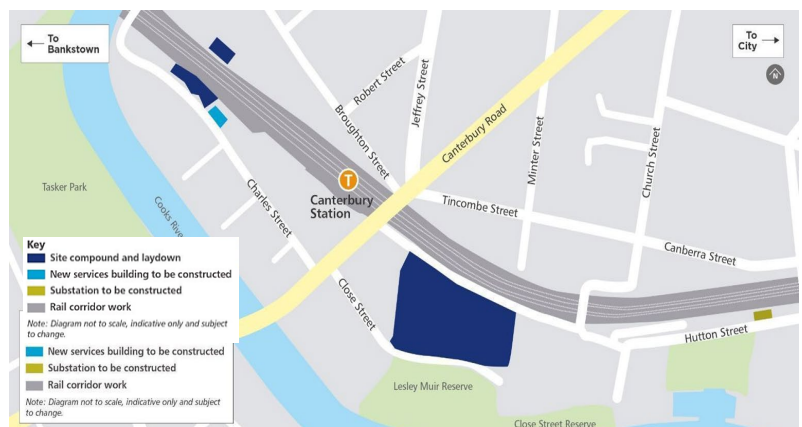
Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.

Keeping you informed

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Notification – Campsie

April 2023

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Passenger services from Chatswood to Sydenham will commence in 2024, then on to Bankstown within 12 months.

In April, work will continue along the corridor and at Campsie station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Campsie (along the rail corridor)	<ul style="list-style-type: none"> • Cable pulling within the rail corridor • Installation of cable service route • De-vegetation and tree clearing throughout the rail corridor where required • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
Around Campsie Station	<ul style="list-style-type: none"> • Concourse building work including building services, fit-out and roofing work • Waterproofing and flooring work within the concourse • Structural remediation and beam replacement on existing concourse • Platform building work including building services and fit-out work • Platform fencing work • Local footpath and traffic control established on Beamish Street footpath to safely facilitate the work • Continued management and modifications of hoardings and work zones • Ongoing work around Campsie at joint bays - South Parade, between Harold and Duke Streets; and Gould Street, between Evaline and Redman Streets: replacing cable, jointing cables into place, testing and commissioning electrical systems
Services building site at Lilian Lane opposite Dewar Street	<ul style="list-style-type: none"> • Begin internal building services fit-out • Preparation for landscaping and fencing work • Local footpath and traffic control established on Lilian Lane to facilitate the work • Local cabling for padmount • Ongoing termination work
Substation site (Off Lilian Street)	<ul style="list-style-type: none"> • Installing glazed panels into the facade walls and anti-graffiti paint • Traffic controllers to facilitate truck movements on Lilian Street • Bulk power supply installs into the traction substation • Excavation and construction of plinth for battery charging transformer • Installing cables and cable supports, and mechanical and electrical fitout • Streetscaping including driveways, kerbs, footpaths, permanent fencing, plus landscaping

From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impacts will be very low.

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Planned out-of-hours work is detailed in the table over the page.

Date / time	Details of out-of-hours work and work during planned rail shutdowns
<p>Mid-week between 6pm and 7am Monday 3 April to Friday 28 April 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Concourse structural steel canopy and preparation for waterproofing • Concourse roofing and building services work • New concourse shop fit-outs • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 14 April to Sunday 16 April • Thursday 20 April to Sunday 23 April 	<ul style="list-style-type: none"> • Concourse building work including building services, fit-out and roofing work • Concourse waterproofing, hydraulic and flooring work • Structural remediation and beam replacement on existing concourse • Platform building work including building services and fit-out work • Platform fencing work, painting and furniture installation • Local footpath and traffic control establishments to facilitate the work on Beamish Street and Lilian Lane • Continued management and modifications of hoardings and work zones • Concourse building facade mesh screen removal and replacement • Trackside equipment foundation modification work • Final asphalt layer on platforms • Traction negative bar installation at Campsie Station • Dressing, cleating and installing termination plates on the overhead wiring structures • Installation of anti-throw screen fixtures along Wairoa Street bridge • Temporary lane closures along Wairoa Street between East and South Parade • Temporary removal of parking along South Parade west of Duke Street • Cable pulling, overhead wire adjustments and signal commissioning • Civil galvanised steel troughing routes modifications and connections • Installation of fittings to galvanised steel troughing and fixtures to segregation fence piles • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing

Equipment used for the above work will include heavy machinery (including but not limited to excavators, trucks, hydraulic ram, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.

Keeping you informed

Properties close to scheduled work will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Alana/Grace** or email LinewideMetro@transport.nsw.gov.au. For all other work please ask for **Claire** or email SouthwestMetro@transport.nsw.gov.au.

Thank you for your cooperation while we complete this essential work.



 **1800 171 386** Community information line open 24 hours

 southwestmetro@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**

Notification – Belmore

April 2023

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By 2030, Sydney will have a network of four metro lines, 46 stations and 113km of new metro rail.

Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024, then on to Bankstown within 12 months.

In April, work will continue along the corridor and at Belmore station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Belmore (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and material including associated activities • Installation of fencing, cable service routes and galvanised steel troughing • Cable pulling within the rail corridor
Around Belmore Station and at the services building site (off Redman Parade, adjacent to the rail line)	<ul style="list-style-type: none"> • Delivery of construction plant and material including associated activities • Landscaping and road furniture finishing work • Security fencing and cable service route work including drilling and post installation • Metro services building (MSB) service connection work • Landscaping at the MSB • Demobilisation of the site compound • Delivery and storage of materials, including cables, cable drums, light and heavy vehicles • Ongoing truck and traffic movements into and out of site, managed by traffic control as needed • Local cabling for padmount • Ongoing termination work at services building
Lakemba substation, off The Boulevard, near Taylor Street	<ul style="list-style-type: none"> • Detailed excavations, bringing in and removing materials • Reinstating the perimeter fence • Traffic control to facilitate truck movements on The Boulevard • Installation of glazed tile panels and anti-graffiti paint • Installing cables and cable supports, conduits, transformers, and mechanical and electrical fit out • Installing galvanised steel troughing • Installing streetscaping including driveways, kerbs, footpaths and permanent fencing, plus landscaping • Installing steel structures • Local cabling for padmount • Ongoing services termination work at services building

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impacts from this work will be very low.*

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours, when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties close to scheduled work will be notified prior to work starting. Planned out-of-hours work is detailed in the table over the page.

Date / time	Details of out-of-hours work and work during planned rail shutdowns
<p>Mid-week between 6pm and 7am Monday 3 April to Friday 28 April 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Saturday 15 April to Sunday 16 April • Thursday 20 April to Sunday 23 April 	<ul style="list-style-type: none"> • Cable pulling work within rail corridor • Temporary parking removal at Redman Parade • Traction negative bar installation at Belmore Station • High voltage cabling in rail corridor • Adjustments to galvanised steel troughing and installing new cable routes • General cleaning activities of offices with pressure washer and elevated work platforms

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

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1800 171 386 Community information line open 24 hours



southwestmetro@transport.nsw.gov.au



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



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Notification – Lakemba

April 2023

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Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024, then on to Bankstown within 12 months.

In April, work will continue along the corridor and at Lakemba Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Lakemba (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Cable pulling within the rail corridor
Around Lakemba station (Railway Parade and The Boulevarde)	<ul style="list-style-type: none"> • Delivery of plant and material including storage and removal as required • Temporary footpath and lane closures will be in place when required at Railway Parade and The Boulevarde near the station. • Temporary footpath closure on Haldon Street bridge for anti-throw screen handrail, anti-graffiti installation and maintenance work • Installation of boundary fencing • Temporary car park closure • Use of knuckle boom at Railway Parade and The Boulevarde station entry • Use of crane lifts and reinstalling light pole along Railway Parade
Services building site on Railway Parade near Bellevue Avenue	<ul style="list-style-type: none"> • Delivery of plant and materials as required • Construction work including concreting and blockwork, electrical work, cable installation, cladding, mechanical services installation, security installation in Metro Services Building (MSB) • Installation of temporary fencing • Installation and modification of Galvanised Steel Troughing on MSB • Backfilling and regrading work along Railway Parade and roadside of padmount area retaining wall, formwork and steel fixing, concreting, fencing • Installation of solar panel cables and connection to inverter • Asphaltting work for carpark along Railway Parade • Clean and fit out stormwater pits • Minor landscaping work and carpark reinstatement around MSB • Ongoing termination work
Lakemba substation, off The Boulevarde, near Taylor Street	<ul style="list-style-type: none"> • Detailed excavations, delivery and removal materials as required • Reinstating the perimeter fence • Traffic control to facilitate truck movements on The Boulevarde • Installation of glazed tile panels and anti-graffiti paint • Installing cables and cable supports, conduits, transformers, and mechanical and electrical fit-out • Installing galvanised steel troughing (GST) • Installing streetscaping including driveways, kerbs, footpaths, and permanent fencing and landscaping • Installation of steel structure

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / time	Details of out-of-hours (including night) work
<p>Mid-week between 6pm and 7am Monday 3 April to Friday 28 April 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparations for upcoming out-of-hours work • Installation of containment and cable on the concourse • Installation of electrical, mechanical, fire and security services on the platform and station building • Maintenance of storage areas on the platform and concourse • Break out concrete around platform equipment footing and install conduits • Installation of vermin proof mesh around condenser slab • Maintenance of temporary work on concourse and defect work on the platform • Hearing loop installation and other work on the platform and concourse • Installation of light fittings on the platform
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 14 April to Sunday 16 April 2023 • Thursday 20 April to Sunday 23 April 2023 • Wednesday 26 April to Friday 28 April 2023 	<ul style="list-style-type: none"> • Closure of concourse footbridge • Delivery of plant and materials • Temporary footpath and lane closures will be in place when required at Haldon Street bridge, Railway Parade and The Boulevard • Formwork, concreting, backfill and compaction • Installation of cable containment and other fit out of electrical services • External patch and paint work on platform station building • Sleeper replacement • Tile cutting on platform coping edge • Installation of capping, permanent handrail for Anti-Throw screens on Haldon Street bridge • Site compound demobilisation work • Cabling work from platforms to Metro Services Building • Finalisation of galvanised steel troughing work • Asphalt patch work on the platform • Installation of hearing loops on the platforms and concourse • Reinstatement of car park including kerb and gutter along Railway Parade • Use of heavy machinery along Railway Parade • Installation of tiles, steel structure, rectification of defects and painting at substation • HV cabling in the rail corridor • Traction negative bar installation at Lakemba Station

Equipment used for all the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Chris** or email LinewideMetro@transport.nsw.gov.au. For all other work please ask for **Julian** or email SouthwestMetro@transport.nsw.gov.au. **Thank you for your cooperation while we complete this essential work.**

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Notification – Wiley Park

April 2023

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Passenger services from Chatswood to Sydenham will commence in 2024, then on to Bankstown within 12 months.

In April, work will continue along the corridor and at Wiley Park Station (weather and site conditions permitting).

Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**.

You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Wiley Park (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Station finishing work (concrete patching, paving) • Installation of cable service routes including cable pulling • De-vegetation and tree clearing throughout the rail corridor where required • Relocation of Ausgrid cable routes including temporary lane closures at King Georges Road adjacent to Wiley Park Station • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
Wiley Park Station	<ul style="list-style-type: none"> • Delivery of construction plant and material as required including traffic control • Station finishing work (including concrete patching and paving) • Local cabling for padmount • Ongoing termination work at services building

Out-of-hours work

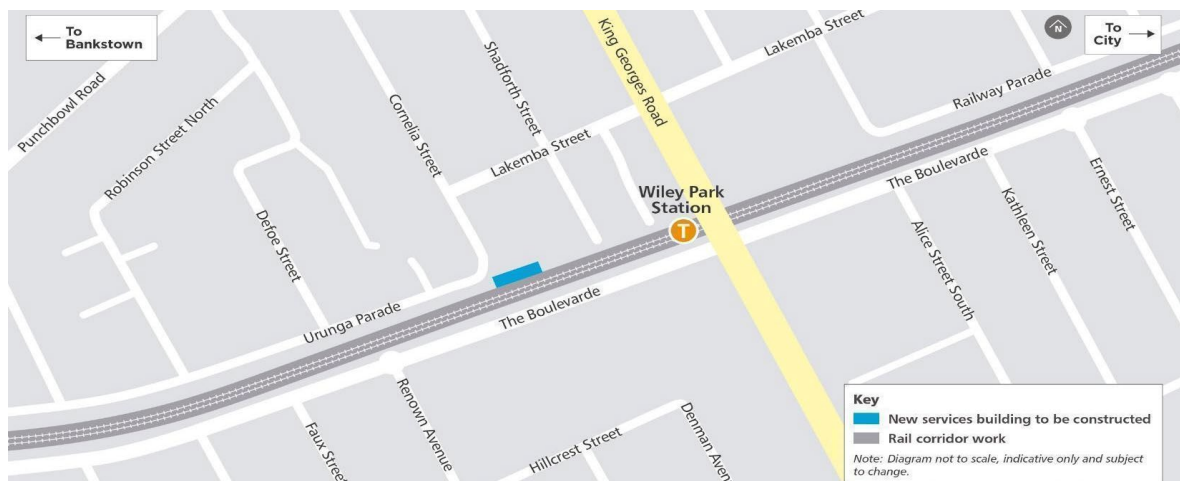
Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table over the page.

Out-of-hours work

Date / time	Details of out-of-hours work and work during planned rail shutdowns
<p>Mid-week between 6pm and 7am Monday 3 to Friday 28 April 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Concrete work associated with new cable routes
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 14 April to Sunday 16 April • Thursday 20 April to Sunday 23 April 	<ul style="list-style-type: none"> • Delivery of construction plant and material as required including traffic control • Station finishing works (concrete patching, paving) • Cable pulling • Relocation of services including temporary lane closures along King Georges Road from 11pm to 5am between The Boulevard and Lakemba Street, and the temporary closure of the footpath between King Georges Road and Shadforth Street

Equipment used for all the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

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Notification – Punchbowl to Bankstown

April 2023

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Passenger services from Chatswood to Sydenham will commence in 2024, then on to Bankstown within 12 months.

In April, work will continue along the corridor and at Punchbowl Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Punchbowl to Bankstown (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • Modification and upgrade work to bridges along the rail alignment including Stacey Street bridge • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Demobilisation of temporary site compounds at Punchbowl along The Boulevard between Dudley Street and Rosemont Street S and at Bankstown along North Terrace between West Terrace and The Appian Way • Cable pulling within the rail corridor
Punchbowl Station and surrounding areas & Concourse	<ul style="list-style-type: none"> • Lift installation work • Station and concourse building fit-out • Landscaping work to The Boulevard side of Punchbowl Station and Rest Park • Construction of retaining block wall on south plaza next to the service stairs • Mechanical service work in building station • Asphalt work in lifts
Services building site off Urunga Parade, adjacent to the rail line	<ul style="list-style-type: none"> • Building fit-out • Landscaping and associated activities • Fencing installation • Ongoing termination work • Local cabling for padmounts
Punchbowl substation, off South Terrace near Scott Street	<ul style="list-style-type: none"> • Detailed excavations, bringing in and removing materials • Traffic controllers to facilitate truck movements onto South Terrace • Installing conduits, drainage and cables • Installation of glazed tile panels and anti-graffiti paint • Drainage work on South Terrace and site investigation of existing services • Mechanical and electrical fit-out • Installation of vehicle gate to substation • Streetscaping including driveways, kerbs, footpaths, permanent fencing, plus landscaping • Installation of steel structure in substation

From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.

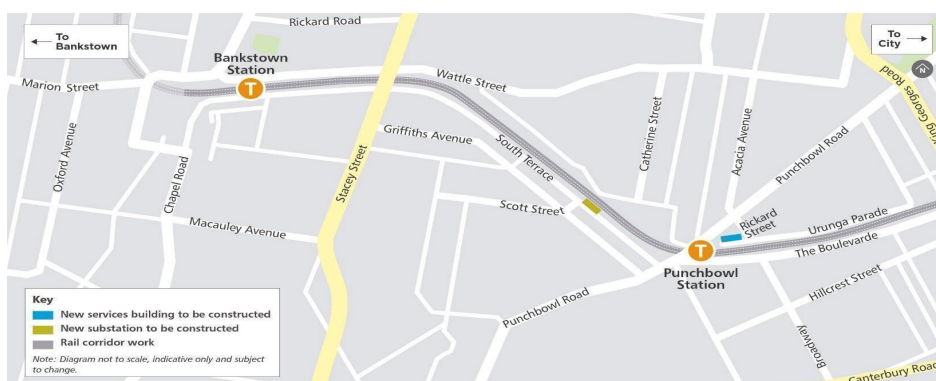
Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table over the page.

Date / time	Details of out-of-hours (including night) work
<p>Mid-week between 6pm and 7am Monday 3 to Friday 28 April 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Concrete work associated with installing new cable routes and bridge upgrades • Modification and upgrade work to culverts and bridges along the alignment and Stacey Street bridge • Temporary alternate lane closures along Stacey Street bridge • Resurfacing activities associated with installing the new hi-rail access pad inside the rail corridor along Urunga Parade between Dudley Street and Rosemont Street N
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 14 April to Sunday 16 April • Thursday 20 April to Sunday 23 April 	<ul style="list-style-type: none"> • Platform building fit-out and asphalt work • Installation of platform furniture and interim cameras • Removal of light poles and redundant services • Brick heritage platform wall and concourse glazing installation • North canopy roofing and concourse ceiling installation • External and internal concourse cladding and finishes and downpipe installation for roofing and lifts • Trackside equipment installation within the rail corridor • Structural steel frame and earthing installation • Continuation of galvanised steel troughing installation • Excavation, laying of conduits and backfilling at western end of the station • Installation of steel structures at Punchbowl substation • Installation of tiles, rectification of defects and painting at Punchbowl substation • High voltage cabling in rail corridor between Punchbowl and Bankstown • Traction negative bar installation at Punchbowl Station • Installing new cable routes and cable pulling • Installing fixtures and fittings to overhead wire structures • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Modification and upgrade work to bridges along the rail alignment including Stacey Street bridge, involving temporary alternate lane closures along Stacey Street bridge • Temporary lane closure and removal of parking along South Terrace between East Terrace and Stacey Street bridge and North Terrace between Stacey Street bridge and Lady Cutler Avenue (lane closure at North Terrace between 10am to 3pm)
<p>From 8am Saturday 29 April to 6pm Sunday 30 April</p>	<ul style="list-style-type: none"> • Installation of drainage pipes crossing South Terrace

Equipment used for the above work will include excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, sucker trucks, delivery vehicles, borehole drillers, rollers, generators, whacker packers, dump trucks, wood chippers, mulchers, grass cutters, telehandlers, crane trucks, drilling rigs, lifting machinery, elevated work platforms, bobcats, concrete pumps, cable pulling equipment, compactors, lighting towers, forklifts, chainsaw, water carts, vibrating plates, crane 400T, franna crane, elevated work platform, concrete pump, excavator and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers. **Where temporary footpath changes, car parking removal or lane closures are required for works, traffic control, pedestrian detours and signage will be in place to assist the community.**



Keeping you informed

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EPL 21147

R4.4 Validation Report

WE47 Segregation Fence, ULX, CSR and Bridge Works.

Document and Revision History

Document Details	
Title	R4.4 Validation Report
Client	Sydney Metro City & Southwest
JHLOR JV contract no.	K44

Revisions

Revision	Date	Description	Prepared by	Reviewed by
00	26/5/2023	Prepared for R4.4	Zhengyi Zhang	Andre Kruize

Management reviews

Review date	Details	Reviewed by

Controlled: NO Copy no.: Uncontrolled: YES

Table of Contents

Introduction3

R4.4(a) For activities permitted under Condition L5.6 & L5.7, a validation report must be submitted to the EPA that includes the following detail:3

- 1. Confirmation that the equipment used to undertake the works was as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite3
- 2. A copy of the community notification required under Condition L5.123
- 3. Noise monitoring as required by L5.8(d)4
- 4. Details of any exceedances of predicted noise levels;4
- 5. Details of the noise and vibration mitigation measures that were implemented as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite.....4
- 6. The justification required under L5.6 for the carrying out of works outside of standard construction hours in L5.1.4

R4.4 (b) The validation report must be submitted to the EPA fortnightly from the commencement of the works permitted by L5.6 & L5.7 by no later than 2 business days from the end of each fortnight.5

Attachment 1 – Noise Monitoring Results6

Attachment 2 – Community Notification.....9

Introduction

This validation report has been prepared in accordance with EPL 21147 Condition R4.4 for out-of-hour works carried out over 20th and the 21st of May during Weekend 47 Possession (WE47) over 2 days and 1 night. Works was carried under condition L5.6 - Local Possessions at the following locations;

- Sydenham canal fence installation (adjacent to Fraser Park)
- Segregation bolts drilling & panel installation
 - From Wooley Lane to Livingstone Road
 - From Ewart street to Hurston Park Station
 - From Foord Street to Canterbury Road
 - From Broughton Street (adjacent to Cooks River) to Duke Street
- ULX
 - Belmore Triangle (Sydney Metro Chainage: SM13+480)
 - Lakemba (Sydney Metro Chainage: SM15+570)
- Bankstown CSR installation (Sydney Metro Chainage: SM19+090)
- Bridge Works
 - Stacy Street bridge screen installation

Refer to **Attachment 1** for monitoring results.

R4.4(a) For activities permitted under Condition L5.6 & L5.7, a validation report must be submitted to the EPA that includes the following detail:

1. **Confirmation that the equipment used to undertake the works was as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite**

The assessment prepared for the works included modelling for the following plant and equipment:

- Excavators 3T, 6 and 13T (inc jack hammer attachments)
- Balloon tyre dump trucks (Hydrema)
- Lighting towers
- Light vehicles
- Trucks
- Handheld powered and non-powered tools
- Vac Trucks
- EWP/telehandler
- Front-end loader
- Concrete truck and line pump
- Portable Generators
- Compressors
- Compactor
- Bogie
- Water pumps
- 4T Dumpy

2. **A copy of the community notification required under Condition L5.12**

A copy of the community notification required under Condition L5.12 is appended as **Attachment 2**.

3. Noise monitoring as required by L5.8(d)

WE47 works. Real time noise monitoring was carried out at 4 locations (inside the corridor) across the project;

- 80m north-west of 17 Warburton Street, 30m (across track) south-west of 20 Arthur Street, Marrickville
- 110m east of Cecilia Street, 25m south of 10 Redman Parade, Belmore
- 120m east of Alice Street North and 35m south of 67 Railway Parade, Lakemba
- 40 m west of Stacy Street, 10 m north of South Terrace, Bankstown

Refer to **Attachment 1**.

4. Details of any exceedances of predicted noise levels;

Throughout the works carried out over WE47, there were no exceedances of the predictions due to construction activity. Actual noise (LAeq 15min) data was collected at the monitoring location and calculated at the nearest resident.

There were no noise complaints as a result of construction activities.

5. Details of the noise and vibration mitigation measures that were implemented as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite

The following noise mitigation measures were implemented:

- All workers briefed at the OOHW prestart meeting.
- Works occur within the hours agreed in the OOHW only.
- All plant were positioned so that the exhaust (or noisiest side of the plant) is pointing away from sensitive receivers, where possible.
- Plant is to be turned off when not in use
- Workers are not to shout, slam doors, drop objects or make any other unnecessary noise
- Workers are to be mindful of residents when mobilizing and demobilizing
- Noise mats are placed around standing equipment when positioned in close proximity to residents.

Additional mitigation measures in accordance with the Sydney Metro Construction Noise and Vibration Strategy were implemented which included:

- Letter box drops
- Real time monitoring at selected locations
- A noise model was developed and where required, respite offers (RO) were provided for residents with predicted noise exceedance of over 20dB and alternative accommodation (AA) were offered for residents with predicted noise exceedance of over 30dB above the background.

6. The justification required under L5.6 for the carrying out of works outside of standard construction hours in L5.1.

The works carried out on WE47 were completed under L5.6 (Local Possessions), as carrying out these works and activities during standard construction hours (as specified in L5.1) would cause unacceptable risks to construction personnel safety; rail passenger and railways personnel safety and railway network operational reliability. These works could only be safely conducted during a

rail possession as these construction activities occurring within the rail corridor/danger zone. All feasible and reasonable at-source noise controls were implemented in accordance with Condition L4.1, and noise mitigation measures were implemented in accordance with JHLORJV's CNVIS and Interim Construction Noise Guideline (DECC 2009).

R4.4 (b) The validation report must be submitted to the EPA fortnightly from the commencement of the works permitted by L5.6 & L5.7 by no later than 2 business days from the end of each fortnight.

This R4.4 Validation report has been submitted to EPA by no later than two business days after the end of the fortnight.

Attachment 1 – Noise Monitoring Results

- Monitoring Result
- Monitoring Location

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LA _{Max} in work period	Predicted noise level LAeq,15min (At Nearest Resident)	Calculated actual noise level LAeq,15min (At Nearest Resident)	Compliant	Comments	
1	NCA 01 Continues Monitoring 80m north-west of 17 Warburton Street, 30m (across track) south-west of 20 Arthur Street, Marrickville	20/05/2023	Night 12:00 am to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA	
2			Day to Evening 7:00 am to 22:00 pm	- Concrete drilling - Bolt installation	- Powered Hand tools	96.536	59	59	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Noise monitor detect highest LAeq15min value of 62 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. The calculated source LAeq15min value is 88 dB The calculated actual LAeq15min value at nearest resident is 59 dB Predicted noise levels did not trigger offers for Respite and alternate accommodation. 	
3		20/05/2023 To 21/05/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA	NA
4		21/05/2023	Day to Evening 7:00 am to 22:00 pm	- Concrete drilling - Bolt installation	- Powered Hand tools	100.522	59	53	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 55.83 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. Predicted noise levels did not trigger offers for Respite and alternate accommodation 	
5	NCA 07 Continues Monitoring 110m east of Cecilia Street, 25m south of 10 Redman Parade, Belmore	20/05/2023	Night 12:00 am to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA	
6			Day to Evening 7:00 am to 22:00 pm	- Bulk excavation - Spoil loads out	- Excavator - Jackhammer - Powered Handtools - Hydrema	88.702	64	62	Yes	<ul style="list-style-type: none"> RBL: 41 LAeq15min below predictions. Highest LAeq15min value of 65 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. The calculated source LAeq15min value is 95 dB The calculated actual LAeq15min value at nearest resident is 62 dB Predicted noise levels did not trigger offers for Respite and alternate accommodation 	
7		20/05/2023 To 21/05/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA	NA
8		21/05/2023	Day to Evening 7:00 am to 22:00 pm	- Backfilling - Spoil loads out - Concrete pour	- Excavator - Powered Handtools - Hydrema - Concrete truck	103.792	64	Not Applicable	Yes ¹	<ul style="list-style-type: none"> RBL: 41 LAeq15min below predictions. Highest LAeq15min value of 65.73 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. 21/05/23 wind speed recorded at 17.5 m/s, exceeding the RTA monitoring guideline wind speed limit (5 m/s)² Predicted noise levels did not trigger offers for Respite and alternate accommodation 	

Note:

1 & 2 It is noted that the wind speeds 17.5 m/s exceed the recommended maximum level for noise monitoring as described within *RTA Environmental Noise Management Manual*.

The RTA Environmental Noise Management Manual references: "Avoid monitoring during rain, when the road is wet or when the wind speed exceeds 5 m/sec. Any data collected under these conditions should be discarded."

The windy weather during the monitoring event potentially contributing to the existing exceedances.

As part of the noise monitoring, significant extraneous noise has been recorded as impacting receivers and monitoring results, including throughout the night-time period, well above the given RBLs. Monitoring locations and timing has been adjusted where necessary to try to isolate construction impact, however this is often not feasible. Common extraneous noise sources include:

- Road traffic, particularly rail replacement buses during rail possessions

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Time (hrs)	Construction Activities	Main source of noise	Highest LA _{Max} in work period	Predicted noise level LA _{eq,15min} (At Nearest Resident)	Calculated actual noise level LA _{eq,15min} (At Nearest Resident)	Compliant	Comments	
9	NCA09 Continues Monitoring 120m east of Alice Street North and 35m south of 67 Railway Parade, Lakemba	20/05/2023	Night 12:00 am to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA	
10			Day to Evening 7:00 am to 22:00 pm	- Bulk excavation - Spoil loads out	- Excavator - Jackhammer - Powered Handtools - Hydrema	96.257	67	65	Yes	<ul style="list-style-type: none"> RBL: 44 LA_{eq,15min} below predictions. Highest LA_{eq,15min} value of 66.61 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. Predicted noise levels did not trigger offers for Respite and alternate accommodation 	
11		20/05/2023 To 21/05/2023	Night 22:00 pm to 7:00 am	No Construction Activities	NA	NA	NA	NA	NA	NA	NA
12		21/05/2023	Day to Evening 7:00 am to 22:00 pm	- Backfilling - Spoil loads out - Concrete pour	- Excavator - Powered Handtools - Hydrema - Concrete truck	87.207	67	60	Yes	<ul style="list-style-type: none"> RBL: 44 LA_{eq,15min} below predictions. Highest LA_{eq,15min} value of 66.759 dB due to general construction noise between the hours of 07:00 am and 22:00 pm. Predicted noise levels did not trigger offers for Respite and alternate accommodation 	
13	NCA11 Continues Monitoring 40 m west of Stacy Street, 10 m north of South Terrace, Bankstown	20/05/2023	Night 12:00 am to 7:00 am	No Construction Activities	Background noise level (LA _{eq,15min}) was observed at 61 dB during 12:00 am to 7:00 am						
14			Day to Evening 7:00 am to 22:00 pm	- Fence Panel Installation	- EWP - Powered Handtools	Monitoring data invalid	58	NA	NA	<ul style="list-style-type: none"> RBL: 47 Monitoring data invalid – crew conversations at the location of the monitor Background LA_{eq,15min} value of 61 dB was observed during 12:00 am to 7:00 am, the background noise is higher than the predicted construction noise (LA_{eq,15min} value of 58 dB) 	
15		20/05/2023 To 21/05/2023	Night 22:00 pm to 7:00 am	- Fence Panel Installation	- EWP - Powered hand tools - Light tower	73.223	58	NA	Yes	<ul style="list-style-type: none"> RBL: 39 Excessive load traffic from adjacent road during monitoring period Background LA_{eq,15min} value of 61 dB was observed during 12:00 am to 7:00 am, the background noise is higher than the predicted construction noise (LA_{eq,15min} value of 58 dB) 	
16		21/05/2023	Day to Evening 7:00 am to 22:00 pm	- Fence Panel Installation	- EWP - Powered Handtools	103.792	58	NA	Yes ³	<ul style="list-style-type: none"> RBL: 47 Excessive load Traffic from adjacent road during monitoring period Background LA_{eq,15min} value of 61 dB was observed during 12:00 am to 7:00 am, the background noise is higher than the predicted construction noise (LA_{eq,15min} value of 58 dB) Wind speed on the day recorded at 17.5 m/s, exceeding the RTA monitoring guideline wind speed limit (5 m/s)⁴ 	

Note:

3 & 4 It is noted that the wind speeds 17.5 m/s exceed the recommended maximum level for noise monitoring as described within *RTA Environmental Noise Management Manual*.

The RTA Environmental Noise Management Manual references: "Avoid monitoring during rain, when the road is wet or when the wind speed exceeds 5 m/sec. Any data collected under these conditions should be discarded."

The windy weather during the monitoring event potentially contributing to the existing exceedances.

As part of the noise monitoring, significant extraneous noise has been recorded as impacting receivers and monitoring results, including throughout the night-time period, well above the given RBLs. Monitoring locations and timing has been adjusted where necessary to try to isolate construction impact, however this is often not feasible. Common extraneous noise sources include:

- Road traffic, particularly rail replacement buses during rail possessions

Attachment 2 – Community Notification

Community Notifications were provided to residents of:

- Sydenham
- Marrickville
- Canterbury
- Hurlstone Park
- Dulwich Hill
- Campsie
- Belmore
- Wiley Park
- Punchbowl to Bankstown

Please refer to the following community notifications for works undertaken at the previously stated locations.

Notification – Marrickville

May 2023

Sydney Metro is Australia’s biggest public transport project.

By 2030, Sydney will have a network of four metro lines, 46 stations and 113km of new metro rail.

Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Marrickville Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Marrickville (along the rail corridor):	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Cable Jointing • Modification to Livingstone Road bridge including periodic lane closures and removal of the parking lane along Livingstone Road bridge, as well as temporary parking removal along the southern side of Marrickville Avenue adjacent to the rail corridor • Delivery of plant and material including preparatory activities for upcoming out-of-hours work <ul style="list-style-type: none"> ○ Temporary parking removal on Warburton Street between Illawarra Road and Wooley Lane from 3 May to 9 May
Around Marrickville Station	<ul style="list-style-type: none"> • Delivery, storage and removal of materials and plant through Wooley Lane, Riverdale Avenue and Victoria Road • Installation of fencing, galvanised steel troughing, cable service routes, electrical work variously around the station • Footpath work - The path between Station Street and Victoria Road will remain closed • Contractor work at the service equipment building • Testing and commissioning activities
Services building site in the rail corridor, off Victoria Road	<ul style="list-style-type: none"> • Delivery, storage, and removal of materials and plant • Installation of fencing to the perimeter of the building • Installation of building services and equipment, padmount cabling and driveway excavation • Victoria Road crossover and footpath work • Concrete truck deliveries and concrete pumps • Testing and commissioning of the Metro Services Building • Ongoing termination work
Substation site (off Randall Street behind Albermarle Street)	<ul style="list-style-type: none"> • Site mobilisation including using sections of Randall Street • Traffic control to facilitate truck movements from Livingstone Road into Randall Street • Installing glazed tiles on facade panels and anti-graffiti paint • Installing cables, cable supports, cable tray structure as well as mechanical and electrical fit out • Installing traction substation gates, doors, and permanent fencing • Installing streetscaping including driveways, kerbs, and footpaths, plus landscaping • Testing and commissioning activities

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / time	Details of out-of-hours (including night) work
Mid-week between 6pm and 7am Monday 1 May to Wednesday 31 May 2023 (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
Upcoming rail possessions: <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May 2023 • Friday 19 May to Sunday 21 May 2023 	<ul style="list-style-type: none"> • Installation of Hearing Loops on Platforms 1 and 2 • Tactile rectification work • Installation of fencing • Electrical containment work • High voltage cabling at Wooley Lane and Illawarra Road overpass and the rail corridor • Traction negative bar installation at Marrickville Station • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Installing fittings and adjustments to galvanised steel troughing, fixtures to segregation fence piles and cable pulling • Piling work between ARTC and Bankstown tracks

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Chris** or email LinewideMetro@transport.nsw.gov.au. For all other work please ask for **Julian** or email SouthwestMetro@transport.nsw.gov.au. **Thank you for your cooperation while we complete this essential work.**

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

Notification – Dulwich Hill

May 2023

Sydney Metro is Australia’s biggest public transport project.

By 2030, Sydney will have a network of four metro lines, 46 stations and 113km of new metro rail.

Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Dulwich Hill Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Dulwich Hill (along the rail corridor)	<ul style="list-style-type: none"> • Cable jointing • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work
Around Dulwich Hill Station	<ul style="list-style-type: none"> • Excavation, concrete and landscaping work within precinct area • Services and fit-out work to new footbridge including paving • Delivery and installation of new lift equipment to footbridge • Construction of new platform and plaza rooms under the footbridge • Installation of new station equipment and cabling
Services building site at Ewart Lane	<ul style="list-style-type: none"> • Concrete work including pouring and finishings • Earthing work around padmount substation • Installation of external façade and solar panels to roof • Internal building fit-out work • Delivery and installation of equipment • Delivery of material and plant via Ewart Lane • Scaffolding installation and removal • Local cabling for padmount • Ongoing termination work
Substation site (off Randall Street behind Albermarle Street, Marrickville)	<ul style="list-style-type: none"> • Site mobilisation including using sections of Randall Street • Traffic control to facilitate truck movements from Livingstone Road into Randall Street • Installing glazed tiles on facade panels and anti-graffiti paint • Installing cables, cable supports, cable tray structure as well as mechanical and electrical fit-out • Installing permanent fencing • Streetscaping including driveways, kerbs, footpaths, plus landscaping • Testing and commissioning

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

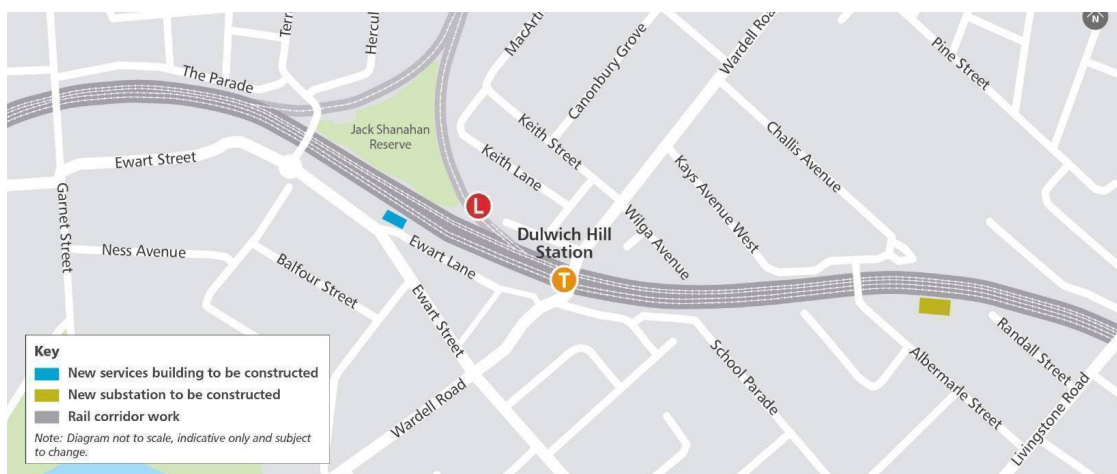
Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table overpage.

Date / time	Details of out-of-hours work
<p>Mid-week between 6pm and 7am Monday 1 to Wednesday 31 May 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May • Friday 19 May to Sunday 21 May 	<ul style="list-style-type: none"> • Platform drainage work • Completion of brickwork under Stair 02 • Remaining glazing work to stairs and lift shafts • Asphaltting work at Platforms • Adjustment of hoardings at Platforms • Installation of station equipment • Installation of new corridor access stairs to ends of platforms • Cable pulling and services work and installations within the rail corridor • Activities associated with bridge upgrades including installation of anti-throw screen fixtures along Ness Avenue bridge involving temporary lane closures along Ness Avenue between Ewart Street and Terrence Road • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Piling work between ARTC and Bankstown line tracks • Installing fixtures to segregation fence piles • Installing metal bars on the train tracks

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Alana/Grace** or email LinewideMetro@transport.nsw.gov.au. For all other works please ask for **Claire** or email SouthwestMetro@transport.nsw.gov.au.

Thank you for your cooperation while we complete this essential work.

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

Notification – Hurlstone Park

May 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Hurlstone Park Station (weather and site conditions permitting).

Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Hurlstone Park (along the rail corridor):	<ul style="list-style-type: none"> Site investigations and surveys including (but not limited to) non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing Delivery of construction plant and materials Removal of trees, vegetation and asbestos as required Installation of fencing, cables (including jointing) and cable service route (CSR) including cable pulling Work associated with installation of future security fence (boundary fence) Installation of segregation fencing and bridge anti-throw screens Modification works to bridges at Church Street including temporary removal of parking along Church Street Work associated with installation of fence panels including periodic lane closures along Melford Street
Around Hurlstone Park Station	<ul style="list-style-type: none"> Site investigations and surveys including (but not limited to) non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing Use of access gates and laydowns at Keir Avenue, The Parade, Ewart Street, Railway Street and Foord Avenue Delivery of construction plant and materials Asphalting, drainage, and concreting works and continuation of fencing work Installation of balustrades and associated glazing work, including artwork Footpath closures for footpath work with pedestrian and traffic detours in place under the direction of traffic control Paving work around concourse area Galvanised steel troughing (GST) work High level containment work for electrical, communication and other services Ceiling and glazing work at concourse and on stairs Platform fencing works and platform equipment installation Footpath work within the station precinct resulting in temporary loss of parking on Floss St and Duntroon St Commencement of lift car installation Construction work to city side of Duntroon St bridge, platform finishing works and pavement work Site shed layout adjustments as required to facilitate ongoing construction works, may result in traffic impacts
Services building site off Railway Street	<ul style="list-style-type: none"> Delivery of construction plant and materials Site investigations and surveys as above and ongoing termination work Installation of fencing, cables, and cable service route (CSR) and galvanised steel troughing (GST) Work associated with installation of future security fence (boundary fence) Resurfacing of roadways following services investigation and installation, under traffic control guidance Installation of structural steel, roofing & cladding requiring plant for installation and FRP work Minor roofing and wall cladding works and site shed layout adjustments as required Services connections for chiller units and installation within building structures including cladding and doors Driveway slab construction (including kerbs, gutters, ACO drain, bollards, etc.) Brick wall construction to precinct area Jackhammering and excavation work to facilitate structures and services installation, with required dust and noise mitigation measures in place

Substation site, off Hutton Street	<ul style="list-style-type: none"> • Site mobilisation and excavations • Installing cables, cable supports, and mechanical and electrical fit out • Traffic controllers to facilitate truck movements on Hutton Street • Installing glazed panels into the facade walls and anti-graffiti paint • Installing permanent fencing • Streetscaping including driveways, kerbs, and footpaths, plus landscaping • Testing and commissioning
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*From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.

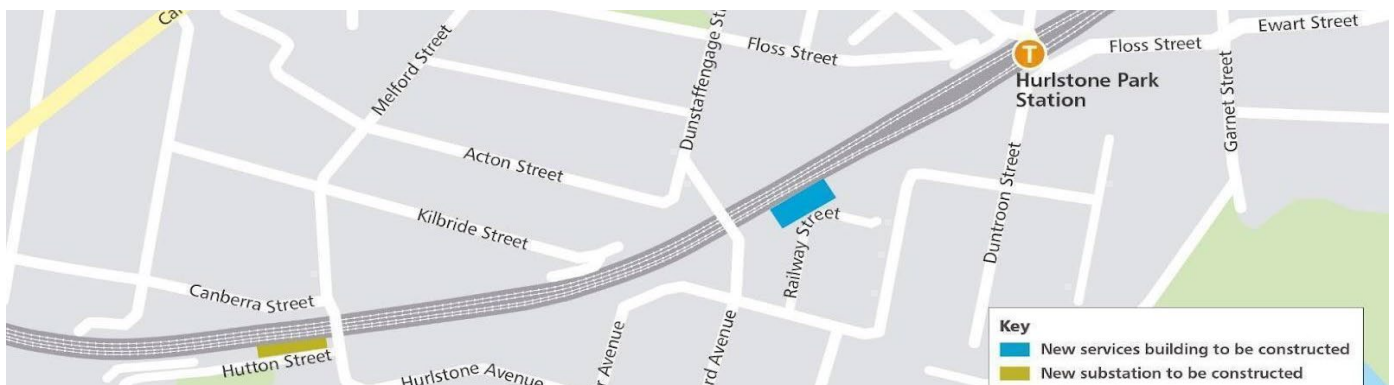
Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / time	Details of out-of-hours (including night) work
Mid-week between 6pm and 7am Monday 1 to Wednesday 31 May 2023 (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Concrete work associated with bridge upgrades.
Upcoming rail possessions: • Friday 5 May to Sunday 7 May • Friday 19 May to Sunday 21 May	<ul style="list-style-type: none"> • Platform glazed canopy installation, platform asphaltting, equipment installation and fencing and fixtures work • Earthing installation • Use of Keir Avenue, The Parade and Ewart Street access points • Glazed balustrade work • Temporary work to facilitate permanent works installation • Service work including electrical, communications, plumbing and mechanical • Traffic control as required to facilitate completion of scope • Site investigations as detailed above • Activities associated with bridge upgrades including temporary lane closures and parking changes in nearby areas • Work associated with installation of fence panels including periodic lane closures along Melford Street • Piling work between ARTC and Bankstown tracks

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Chris** or email linewideMetro@transport.nsw.gov.au. For all other works please ask for **Hilda** or email SouthwestMetro@transport.nsw.gov.au. **Thank you for your cooperation while we complete this essential work.**

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

Notification – Canterbury

May 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Canterbury Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Canterbury (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Modification work to bridges at Church Street footbridge including temporary removal of parking along Church Street cul-de-sac • Electrical and cable work within rail corridor
Around Canterbury station	<ul style="list-style-type: none"> • Storage and removal of materials and plant • Station equipment room cabinet work • Installation of drainage and services, concreting, steel and brick work, cladding, (a partial lane closure may be required during this period, signage and traffic control will be in place) • Glazing of footbridge, safety fencing and stair canopy, and structural steel infill for footbridge glazing for motorised sliding door • Concourse civil work, retail cladding, platform fencing and work on the Station buildings • Broughton Street footpath and electrical work and furniture installation • Brickwork, structural steel and cladding installation at Metro Services Building (MSB) • Installation of raised access and padmount flooring and internal painting and sealing at the MSB • MSB roofing, excavation, gutter, and downpipe work and ongoing termination work • Installation of water services, doors, roller doors, switchboards, solar panels, roof safety system, inground and above ground services, fencing, scaffolding and modification at the MSB • Brickwork installation on Platforms 0 and 1 and light fittings and building services on platforms • Installation of louvre doors for the mechanical room, lifts equipment and boundary fencing • Electrical containment installation on platforms and the pedestrian ramp • Demobilisation of amenities from carpark and 6 Charles St and 6 Broughton St storage areas • Local cabling for padmount
Former Bowling Club	<ul style="list-style-type: none"> • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Temporary parking impacts on Close Street • Vegetation management
Substation site off Hutton Street	<ul style="list-style-type: none"> • Site mobilisation and excavations and testing and commissioning • Installing cables, cable supports, and mechanical and electrical fit out • Traffic controllers to facilitate truck movements on Hutton Street • Installing glazed panels into the facade walls and anti-graffiti paint • Installing traction substation gates, doors, and permanent fencing • Installing streetscaping including driveways, kerbs, and footpaths, plus landscaping
Other areas	<ul style="list-style-type: none"> • Cable replacement and jointing work, and the testing and commissioning of electrical systems at the joint bay on Cooks Avenue and Onslow Lane (including Onslow Lane)

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / time	Details of out-of-hours work and work during planned rail shutdowns
<p>Mid-week between 6pm and 7am Monday 1 May to Wednesday 31 May 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Electrical work on the Metro Services Building • Roofing and brick work and various civil work • External Anti-Graffiti Painting • Installation of signal equipment and cable pulling • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Concrete work associated with bridge upgrades
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May 2023 • Friday 19 May to Sunday 21 May 2023 	<ul style="list-style-type: none"> • Installation of glazing at the footbridge, concourse and lift canopy • Electrical and building work at the concourse • Installation of cladding on Metro Services Building • Brickwork cleaning under stairs and staircase work • Installation of fences on the platform • Installing fixtures to segregation fence piles • Tile rectification on platforms • Installation of trackside equipment on Platform 2 • Piling work between ARTC and Bankstown line tracks • Pedestrian fence installation on Canterbury Road and Broughton Street • Cable pulling work within rail corridor • Temporary parking removal on Charles Street • Installation of tiles, rectifying defects, and painting at substation • HV cabling in rail corridor • Traction negative bar installation at Canterbury Station • Installing fixtures to fence piles, over-head-wire adjustments, and signal work • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Temporary removal of parking along Broughton Street intersection with John Street • Modification work at Church Street footbridge including temporary closure of Church Street footbridge including temporary removal of parking along Church Street cul-de-sac • Bridge upgrade work including installation of anti-throw screen fixtures along Charles Street bridge and Wairoa Street bridge • Temporary lane closures along Charles Street intersection with Broughton Street and Wairoa Street between East and South Parade • Work associated with installation of fence panels including periodic lane closures along Melford Street between Hutton and Canberra Streets

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.

Keeping you informed

Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24-hour community information line). If you have questions about the **substations** please ask for **Chris** or email LinewideMetro@transport.nsw.gov.au. For all other work please ask for **Julian** or email SouthwestMetro@transport.nsw.gov.au.

Thank you for your cooperation while we complete this essential work.



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

Notification – Campsie

May 2023

Sydney Metro is Australia’s biggest public transport project.

By 2030, Sydney will have a network of four metro lines, 46 stations and 113 km of new metro rail.

Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Campsie Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**.

Location	Details of work during standard construction hours (daytime)
Campsie (along the rail corridor)	<ul style="list-style-type: none"> • Cable jointing within the rail corridor and installation of cable service route • De-vegetation and tree clearing throughout the rail corridor where required • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
Around Campsie Station	<ul style="list-style-type: none"> • Concourse building work including building services, fit-out and ceiling work • Waterproofing and flooring work within the concourse • Concourse paving work • Platform building work including building services and fit-out work • Platform fencing work • Local footpath and traffic control established on Beamish Street footpath to safely facilitate the work as needed • Continued management and modifications of hoardings and work zones • Joint bays - South Parade, between Harold and Duke Streets; and Gould Street, between Evaline and Redman Streets: replacing cable, jointing cables into place, testing and commissioning electrical systems
Services building site at Lilian Lane opposite Dewar Street	<ul style="list-style-type: none"> • Progressing the internal building fit-out • Start of cable pulling in building area • Equipment and board building services terminations • Local footpath and traffic control established on Lilian Lane to facilitate the work as needed • Local cabling for the padmount • Ongoing termination work • Painting to external building façade
Substation site (Off Lilian Street)	<ul style="list-style-type: none"> • Installing glazed panels into the facade walls and anti-graffiti paint • Traffic controllers to facilitate truck movements on Lilian Street • Bulk power supply installs into the traction substation • Excavation and construction of base for battery charging transformer • Installing cables and cable supports, and mechanical and electrical fit-out • Streetscaping including permanent fencing, plus landscaping • Commencement of site amenities removal

From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impacts will be very low.

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Planned out-of-hours work is detailed in the following table.

Date / time	Details of out-of-hours work and work during planned rail shutdowns
<p>Mid-week between 6pm and 7am Monday 1 to Wednesday 31 May 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Concourse paving work • Concourse roofing and building services work • New concourse shop fit-outs • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May • Friday 19 May to Sunday 21 May 	<ul style="list-style-type: none"> • Concourse paving work • Concourse building work including building services, fit-out and ceiling work • Platform building work including building services and fit-outs • Platform fencing work and painting • Local footpath and traffic control establishments to facilitate the work on Beamish Street and Lilian Lane • Continued management and modifications of hoardings and work zones • Concourse building facade mesh screen removal and replacement • Activities associated with bridge upgrades including installation of anti-throw screen fixtures along Wairoa Street Bridges including: <ul style="list-style-type: none"> ○ Temporary lane closures along Wairoa Street between East and South Parade ○ Temporary removal of parking along South Parade west of Duke Street • Installation fixtures to segregation fence piles • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Temporary closure of Duke Street footbridge (pedestrian diversions via South Parade) • Local footpath and traffic control establishments to facilitate the work on Loftus Street and Lilian Lane • Piling work between ARTC and Bankstown tracks

Equipment used for the above work will include heavy machinery (including but not limited to excavators, trucks, hydraulic ram, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.

Keeping you informed

Properties close to scheduled work will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Alana/Grace** or email LinewideMetro@transport.nsw.gov.au. For all other work please ask for **Claire** or email SouthwestMetro@transport.nsw.gov.au.

Thank you for your cooperation while we complete this essential work.



 **1800 171 386** Community information line open 24 hours

 southwestmetro@transport.nsw.gov.au

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

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Notification – Belmore

May 2023

Sydney Metro is Australia’s biggest public transport project.

By 2030, Sydney will have a network of four metro lines, 46 stations and 113km of new metro rail.

Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Belmore station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**.

Location	Details of work during standard construction hours (daytime)
Belmore (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and material and associated activities • Installation of fencing, cable service routes and galvanised steel troughing
Around Belmore Station and at the services building site (off Redman Parade, adjacent to the rail line)	<ul style="list-style-type: none"> • Delivery of construction plant and material and associated activities • Landscaping and road furniture finishing work • Security fencing and cable service route work including drilling and post installation • Metro services building (MSB) service connection work • Landscaping at the MSB • Demobilisation of site compound • Delivery and storage of materials, including cables, cable drums, light and heavy vehicles • Ongoing truck and traffic movements into and out of site, managed by traffic control as required • Local cabling for padmount • Ongoing termination work at services building
Lakemba substation, off The Boulevard, near Taylor Street	<ul style="list-style-type: none"> • Detailed excavations, bringing in and removing materials • Reinstating the perimeter fence • Traffic control to facilitate truck movements on The Boulevard • Installation of glazed tile panels and anti-graffiti paint • Installing cables and cable supports, conduits, transformers, and mechanical and electrical fit out • Installing streetscaping including driveways, permanent fencing, plus landscaping • Installation of steel structure • Local cabling for padmount • Ongoing cable termination work at services building • Installing doors and vehicle gate to substation

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impacts from this work will be very low.*

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours, when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties close to scheduled work will be notified prior to work starting. Planned out-of-hours work is detailed in the table below.

Date / time	Details of out-of-hours work and work during planned rail shutdowns
<p>Mid-week between 6pm and 7am Monday 1 to Wednesday 31 May 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May • Friday 19 May to Sunday 21 May 	<ul style="list-style-type: none"> • Piling work between ARTC and Bankstown line tracks • Installing fixtures to fence piles

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

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southwestmetro@transport.nsw.gov.au



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Notification – Lakemba

May 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Lakemba Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Lakemba (along the rail corridor):	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Cable pulling within the rail corridor
Around Lakemba station (Railway Parade and The Boulevard):	<ul style="list-style-type: none"> • Delivery of plant and material including storage and removal as required • Temporary footpath and lane closures will be in place when required at Railway Parade and The Boulevard near the station • Temporary footpath closure on Haldon Street Bridge for anti-throw screen handrail, anti-graffiti installation and maintenance work • Installation of boundary fencing • Temporary car park closure • Use of knuckle boom at Railway Parade and The Boulevard station entry • Use of crane lifts along Railway Parade and reinstalling light poles along Railway Parade
Services building site on Railway Parade near Bellevue Avenue:	<ul style="list-style-type: none"> • Delivery of plant and materials as required • Construction work including concreting and blockwork, electrical work, cable installation, cladding, mechanical services installation, security installation in Metro Services Building (MSB) • Installation of temporary fencing • Installation and modification of Galvanised Steel Troughing on MSB • Backfilling and regrading work along Railway Parade and roadside of padmount area retaining wall, formwork and steel fixing, concreting, fencing • Installation of solar panel cables and connection to inverter • Asphaltting work for carpark along Railway Parade • Clean and fit out stormwater pits • Minor landscaping work and carpark reinstatement around MSB • Ongoing termination work • Local cabling for padmount
Lakemba substation, off The Boulevard, near Taylor Street:	<ul style="list-style-type: none"> • Detailed excavations, delivery and removal materials as required • Reinstating the perimeter fence • Traffic control to facilitate truck movements on The Boulevard • Installation of glazed tile panels and anti-graffiti paint • Installing cables and cable supports, conduits, transformers, and mechanical and electrical fit out • Installing streetscaping including driveways, kerbs, footpaths, and permanent fencing and landscaping • Installation of steel structure • Installation of doors and vehicle gate to substation

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / time	Details of out-of-hours (including night) work
<p>Mid-week between 6pm and 7am Monday 1 May to Wednesday 31 May 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparations for upcoming out-of-hours work • Installation of containment and cable on the concourse • Installation of electrical, mechanical, fire and security services on the platform and in the station building • Maintenance of storage areas on the platform and concourse • Installation of exhaust fans on ticket office roof • Break out concrete around platform equipment footing and install conduits • Maintenance of temporary work on concourse • Hearing loop installation and other work on the platform and concourse • Installation of light fittings on the platform and any required defect work
<p>Upcoming rail possession:</p> <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May 2023 • Friday 19 May to Sunday 21 May 2023 	<ul style="list-style-type: none"> • Closure of concourse footbridge, installation of anti-throw screens and associated work • Delivery of plant and materials • Temporary footpath and lane closures will be in place when required at Haldon Street Bridge, Railway Parade and The Boulevard • Formwork, concreting, backfill and compaction • Installation of cable containment and other fit out of electrical services • External patch and paint work on platform station building • Sleeper replacement and HV cabling in the rail corridor • Tile cutting on platform coping edge • Site compound demobilisation work • Cabling work from platforms to Metro Services Building • Finalisation of galvanised steel troughing work • Asphalt patch work on the platform • Anti-graffiti, joint sealing, concrete patching, installation of glazed tiles at the substation • Dressing overhead wiring structure at the substation • Installation of metal bars on rail tracks

Equipment used for all the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

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Notification – Wiley Park

May 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Wiley Park Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**.

Location	Details of work during standard construction hours (daytime)
Wiley Park (along the rail corridor)	<ul style="list-style-type: none"> • Delivery of construction plant and material as required including traffic control • Station finishing works (concrete patching, paving) • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Installation of cable service routes including cable pulling • De-vegetation and tree clearing throughout the rail corridor where required • Relocation of Ausgrid cable routes including temporary lane closures at King Georges Road adjacent to Wiley Park Station • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Cable pulling
Wiley Park Station	<ul style="list-style-type: none"> • Delivery of construction plant and material as required including traffic control • Station finishing works (concrete patching, paving) • Local cabling for padmount • Ongoing termination work at services building

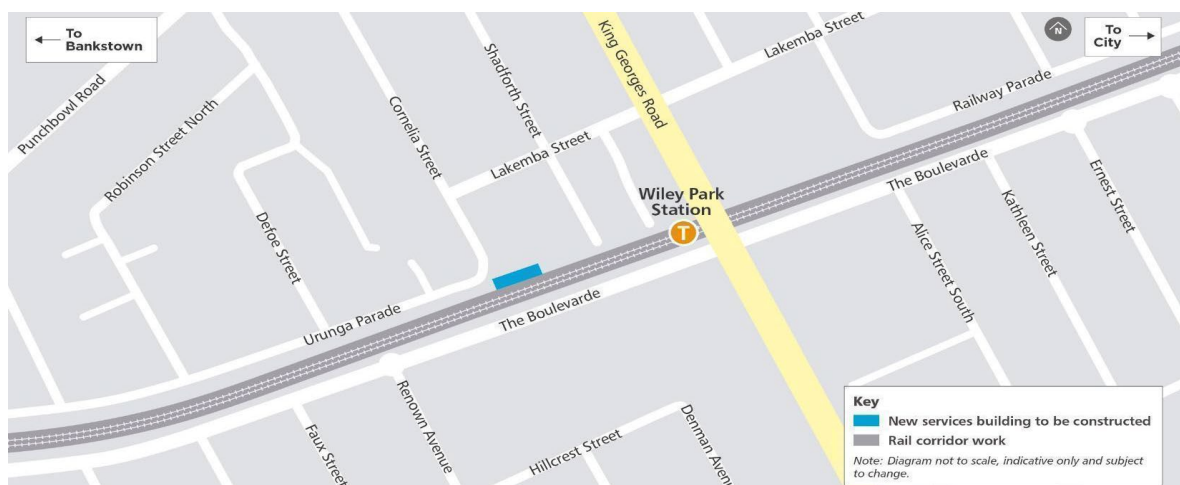
Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table overpage.

Date / time	Details of out-of-hours work and work during planned rail shutdowns
Mid-week between 6pm and 7am Monday 1 to Wednesday 31 May 2023 (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing. • Delivery of plant and material including preparatory activities for upcoming out-of-hours work. • Concrete works associated with new cable routes
Upcoming rail possessions: <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May • Friday 19 May to Sunday 21 May 	<ul style="list-style-type: none"> • Delivery of construction plant and material as required including traffic control • Station finishing works (concrete patching, paving) • Cable pulling • Relocation of services including temporary lane closures along King Georges Road from 11pm to 5am between The Boulevard and Lakemba street and the temporary closure of the footpath between King Georges Road and Shadforth Street

Equipment used for all the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.





Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

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Notification – Punchbowl to Bankstown

May 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Punchbowl Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**.

Location	Details of work during standard construction hours (daytime)
Punchbowl to Bankstown (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • Modification and upgrade work to bridges along the rail alignment including Stacey Street bridge • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Demobilisation of temporary site compounds at Punchbowl along The Boulevard between Dudley Street and Rosemont Street S, and at Bankstown along North Terrace between West Terrace and The Appian Way • Cable pulling • De-vegetation and tree clearing throughout the rail corridor where required
Punchbowl Station and surrounding areas & Concourse	<ul style="list-style-type: none"> • Lift installation work • Station and concourse building fit-out • Mechanical service work in station building • Installing and modifying boundary fencing at south and north plaza • General defect rectification work as required
Services building site off Urunga Parade, adjacent to the rail line	<ul style="list-style-type: none"> • General defect rectification work as required • Security mesh fence installation • Ongoing termination work • Local cabling for padmounts
Punchbowl substation, off South Terrace near Scott Street	<ul style="list-style-type: none"> • Detailed excavations, bringing in and removing materials • Traffic controllers to facilitate truck movements onto South Terrace • Installing conduits, drainage and cables • Installation of glazed tile panels and anti-graffiti paint • Mechanical and electrical fit-out • Installing doors and vehicle gate to substation • Streetscaping including driveways, kerbs, footpaths, fencing and landscaping • Installation of steel structure in substation

From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.

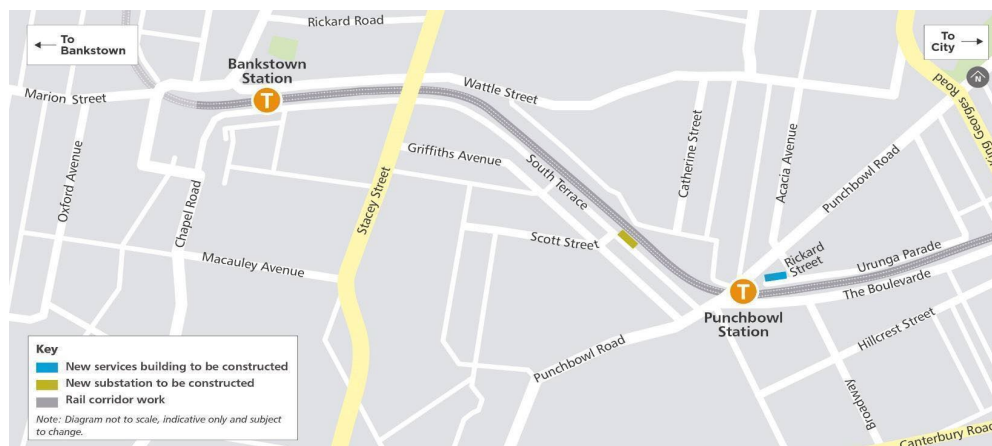
Out-of-hours work

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Date / time	Details of out-of-hours (including night) work
<p>Mid-week between 6pm and 7am Monday 1 to Wednesday 31 May 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Concrete work associated with installing new cable routes and bridge upgrades • Modification and upgrade works to culverts and bridges along the rail alignment including Stacey Street bridge • Temporary alternate lane closures along Stacey Street Bridge • Resurfacing activities associated with installing the new hi-rail access pad inside the rail corridor along Urunga Parade between Dudley Street and Rosemont Street N
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May • Friday 19 May to Sunday 21 May 	<ul style="list-style-type: none"> • Tactile installation on station platforms • General defect rectification as required • Anti-graffiti, joint sealing, concrete patching, installation of glazed tiles at the substation • Construction of combined services route (CSR) • Dressing overhead wiring structure at the substation • Installing metal bars on the train tracks • Installing cables in the rail corridor • installing metal bars on the train tracks • installing cables in the rail corridor • Modification and upgrade work to bridges along the rail alignment including Stacey Street bridge, involving temporary alternate lane closures along Stacey Street bridge • Temporary lane closure and removal of parking along South Terrace between East Terrace and Stacey Street bridge and North Terrace between Stacey Street bridge and Lady Cutler Avenue

Equipment used for the above work will include excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, sucker trucks, delivery vehicles, borehole drillers, rollers, generators, whacker packers, dump trucks, wood chippers, mulchers, grass cutters, telehandlers, crane trucks, drilling rigs, lifting machinery, elevated work platforms, bobcats, concrete pumps, cable pulling equipment, compactors, lighting towers, forklifts, chainsaw, water carts, vibrating plates, crane 400T, franna crane, elevated work platform, concrete pump, excavator and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers. **Where temporary footpath changes, car parking removal or lane closures are required for works, traffic control, pedestrian detours and signage will be in place to assist the community.**



Keeping you informed

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 **1800 171 386** Community information line open 24 hours

 southwestmetro@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**

EPL 21147

R4.4 Validation Report

WE45 Segregation Fence, OHW Structures and Footings Removal and Bridge Works.

Document and Revision History

Document Details	
Title	R4.4 Validation Report
Client	Sydney Metro City & Southwest
JHLOR JV contract no.	K44

Revisions

Revision	Date	Description	Prepared by	Reviewed by
00	9/5/2023	Prepared for R4.4	Zhengyi Zhang	Andre Kruize

Management reviews

Review date	Details	Reviewed by

Controlled: NO Copy no.: Uncontrolled: YES

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R4.4(a) For activities permitted under Condition L5.6 & L5.7, a validation report must be submitted to the EPA that includes the following detail:3

- 1. Confirmation that the equipment used to undertake the works was as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite3
- 2. A copy of the community notification required under Condition L5.123
- 3. Noise monitoring as required by L5.8(d)4
- 4. Details of any exceedances of predicted noise levels;4
- 5. Details of the noise and vibration mitigation measures that were implemented as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite4
- 6. The justification required under L5.6 for the carrying out of works outside of standard construction hours in L5.1.4

R4.4 (b) The validation report must be submitted to the EPA fortnightly from the commencement of the works permitted by L5.6 & L5.7 by no later than 2 business days from the end of each fortnight.5

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Introduction

This validation report has been prepared in accordance with EPL 21147 Condition R4.4 for out-of-hour works carried out over 6th and the 7th of May during Weekend 45 Possession (WE45) over 2 days and 1 night. Works was carried under condition L5.6 - Local Possessions at the following locations;

- Segregation Fence Piling
 - From Wooley Lane to Livingstone Road
 - From Ewart street to Hurston Park Station
 - From Foord Street to Canterbury Road
 - From Broughton Street (adjacent to Cooks River) to Duke Street
- Pruning of vegetation of batter at Albermarle Street
- Overhead Wiring Works (remove footings & stub structures)
 - Marrickville Station to Dulwich Hill Station
- Bridge Works
 - Livingstone Road Bridge – testing of soil nails

Refer to **Attachment 1** for monitoring results.

R4.4(a) For activities permitted under Condition L5.6 & L5.7, a validation report must be submitted to the EPA that includes the following detail:

1. **Confirmation that the equipment used to undertake the works was as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite**

The assessment prepared for the works included modelling for the following plant and equipment:

- Excavators 3T, 6T,13T and 24T (inc auger/piling & jack hammer attachments)
- Balloon tyre dump trucks (Hydrema)
- Lighting towers
- Light vehicles
- Trucks
- Handheld powered and non-powered tools
- Vac Trucks
- EWP/telehandler
- Front-end loader
- Concrete truck and line pump
- Portable Generators
- Compressors
- Compactor
- Bogie
- Water Pumps
- 4T Dumpy

2. **A copy of the community notification required under Condition L5.12**

A copy of the community notification required under Condition L5.12 is appended as **Attachment 2**.

3. Noise monitoring as required by L5.8(d)

WE45 noise monitoring was carried out at the following locations through the project;

- 80m north-west of 17 Warburton Street, 30m (across track) south-west of 20 Arthur Street, Marrickville
- 12m north of 83 Ewart Street, 100m north-west of new site entrance, Dulwich Hill
- 5m south of 48A Kilbride Street and 72m east of Melford Street, Hurlstone Park
- 28m north of 28 South Parade, 43m north-west of site entrance, Campsie

Refer to attachment 1.

4. Details of any exceedances of predicted noise levels;

Throughout the works carried out over WE45, there were no exceedances of the predictions due to construction activity.

There were none (0) complaint related to the construction activities.

5. Details of the noise and vibration mitigation measures that were implemented as specified in the relevant Construction Noise and Vibration Impact Assessment for the worksite

The following noise mitigation measures were implemented:

- All workers briefed at prestart of OOHW taking place.
- Works occur within the hours agreed in the OOHW only.
- All plant were positioned so that the exhaust (or noisiest side of the plant) is pointing away from sensitive receivers, where possible.
- Plant to be turned off when not in use
- Workers are not to shout, slam doors, drop objects or make any other unnecessary noise
- Workers are to be mindful of residents when mobilizing and demobilizing

Additional mitigation measures in accordance with the Sydney Metro Construction Noise and Vibration Strategy were implemented which included:

- Letter box drops
- Continuous monitoring at selected locations
- Respite offers (RO) where provided for residents with predicted noise exceedance of over 20dB and alternative accommodation (AA) where offered for residents with predicted noise exceedance of over 30dB above the background.

6. The justification required under L5.6 for the carrying out of works outside of standard construction hours in L5.1.

The works carried out on WE47 were completed under L5.6 as carrying out these works and activities during standard construction hours (specified in L5.1) would cause unacceptable risks to construction personnel safety; rail passenger and railways personnel safety and railway network operational reliability. The works could only be safely conducted during a rail possession due to works occurring within the rail corridor. All feasible and reasonable at-source noise controls were implemented in accordance with Condition L4.1, and noise mitigation measures were implemented in accordance with JHLORJV's CNVIS and Interim Construction Noise Guideline (DECC 2009).

R4.4 (b) The validation report must be submitted to the EPA fortnightly from the commencement of the works permitted by L5.6 & L5.7 by no later than 2 business days from the end of each fortnight.

This R4.4 Validation report has been submitted to EPA by no later than two business days after the end of the fortnight.

Attachment 1 – Noise Monitoring Results

- Monitoring Result
- Monitoring Location

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Period	Construction Activities	Main source of noise	Highest LAeq 15min in work period	Highest LA _{Max} in work period	Predicted noise level LAeq,15min	Compliant	Comments
1	NCA 01 Continues Monitoring	6/05/2023	Night 12:00 am to 7:00 am	- Site preparation - Removal ballast - Plant transportation	- Excavator	49.757	99.968	82	Yes	<ul style="list-style-type: none"> RBL: 33 dB LAeq15min below predictions. Highest LAeq15min value of 49.757 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
2			Day to Evening 7:00 am to 22:00 pm	- Piling - OHW footing demolition - Concrete pour	- Excavator - Jackhammer - Powered Handtools - Concrete truck	58.533	82.789	78	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 58.533 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
3	80m north-west of 17 Warburton Street, 30m (across track) south-west of 20 Arthur Street, Marrickville	6/05/2023 To 7/05/2023	Night 22:00 pm to 7:00 am	- Piling - Concrete pour	- Excavator - Light tower - Concrete truck - Powered Handtools - Jackhammer	56.673	84.546	80	Yes	<ul style="list-style-type: none"> RBL: 33 dB LAeq15min below predictions. Highest LAeq15min value of 56.673 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
4			Day to Evening 7:00 am to 22:00 pm	- Piling - Spoil loads out - Concrete pour	- Excavator - Jackhammer - Powered Handtools - Bogie - Concrete truck - Light tower	56.902	86.228	84	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 56.902 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
5	NCA 02 Continues Monitoring	6/05/2023	Night 12:00 am to 7:00 am	- Site preparation - Removal ballast - Plant transportation	- Excavator	49.218	94.391	76	Yes	<ul style="list-style-type: none"> RBL: 33 dB LAeq15min below predictions. Highest LAeq15min value of 49.218 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
6			Day to Evening 7:00 am to 22:00 pm	- Piling - OHW footing demolition - Vegetation clearing - Concrete pour	- Excavator - Jackhammer - Powered Handtools - Concrete truck	63.026	102.874	76	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 63.026 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
7	12m north of 83 Ewart Street, 100m north-west of new site entrance, Dulwich Hill	6/05/2023 To 7/05/2023	Night 22:00 pm to 7:00 am	- Piling - Concrete pour	- Excavator - Light tower - Concrete truck - Powered Handtools - Jackhammer	69.921	87.109	76	Yes	<ul style="list-style-type: none"> RBL: 33 dB LAeq15min below predictions. Highest LAeq15min value of 69.921 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
8			Day to Evening 7:00 am to 22:00 pm	- Piling - Spoil loads out - Concrete pour	- Excavator - Jackhammer - Powered Handtools - Bogie - Concrete truck - Light tower	63.980	95.980	76	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 63.980 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.

Reference Number	Monitoring Location (Catchment, Type & Address)	Date	Time (hrs)	Construction Activities	Main source of noise	Highest LAeq 15min in work period	Highest LA _{Max} in work period	Predicted noise level LAeq,15min	Compliant	Comments
9	NCA03 Continues Monitoring 5m south of 48A Kilbride Street and 72m east of Melford Street, Hurlstone Park	6/05/2023	Night 12:00 am to 7:00 am	- Site preparation - Removal ballast - Plant transportation	- Excavator	51.588	95.752	80	Yes	<ul style="list-style-type: none"> RBL: 34 dB LAeq15min below predictions. Highest LAeq15min value of 51.588 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
10			Day to Evening 7:00 am to 22:00 pm	- Piling - Concrete pour	- Excavator - Jackhammer - Powered Handtools - Concrete truck	58.336	90.756	78	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 58.336 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
11		6/05/2023 To 7/05/2023	Night 22:00 pm to 7:00 am	- Piling - Concrete pour	- Excavator - Light tower - Concrete truck - Powered Handtools - Jackhammer	62.584	88.925	79	Yes	<ul style="list-style-type: none"> RBL: 34 dB LAeq15min below predictions. Highest LAeq15min value of 62.584 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
12		7/05/2023	Day to Evening 7:00 am to 22:00 pm	- Piling - Spoil loads out - Concrete pour	- Excavator - Jackhammer - Powered Handtools - Bogie - Concrete truck - Light tower	68.842	98.550	78	Yes	<ul style="list-style-type: none"> RBL: 38 LAeq15min below predictions. Highest LAeq15min value of 68.842 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
13	NCA05 Continues Monitoring 28m north of 28 South Parade, 43m north-west of site entrance, Campsie	6/05/2023	Night 12:00 am to 7:00 am	- Site preparation - Removal ballast - Plant transportation	- Excavator	54.543	83.811	74	Yes	<ul style="list-style-type: none"> RBL: 32 dB LAeq15min below predictions. Highest LAeq15min value of 54.543 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
14			Day to Evening 7:00 am to 22:00 pm	- Piling - Concrete pour	- Excavator - Jackhammer - Powered Handtools - Concrete truck	54.081	96.532	74	Yes	<ul style="list-style-type: none"> RBL: 36 LAeq15min below predictions. Highest LAeq15min value of 54.081 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
15		6/05/2023 To 7/05/2023	Night 22:00 pm to 7:00 am	- Piling - Concrete pour	- Excavator - Light tower - Concrete truck - Powered Handtools - Jackhammer	55.098	78.775	74	Yes	<ul style="list-style-type: none"> RBL: 32 dB LAeq15min below predictions. Highest LAeq15min value of 55.098 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.
16		7/05/2023	Day to Evening 7:00 am to 22:00 pm	- Piling - Spoil loads out - Concrete pour	- Excavator - Jackhammer - Powered Handtools - Bogie - Concrete truck - Light tower	55.446	89.377	74	Yes	<ul style="list-style-type: none"> RBL: 36 LAeq15min below predictions. Highest LAeq15min value of 55.446 dB due to general construction noise between the hours of 12:00 am and 07:00 am. Respite and alternate accommodation provided to residents.

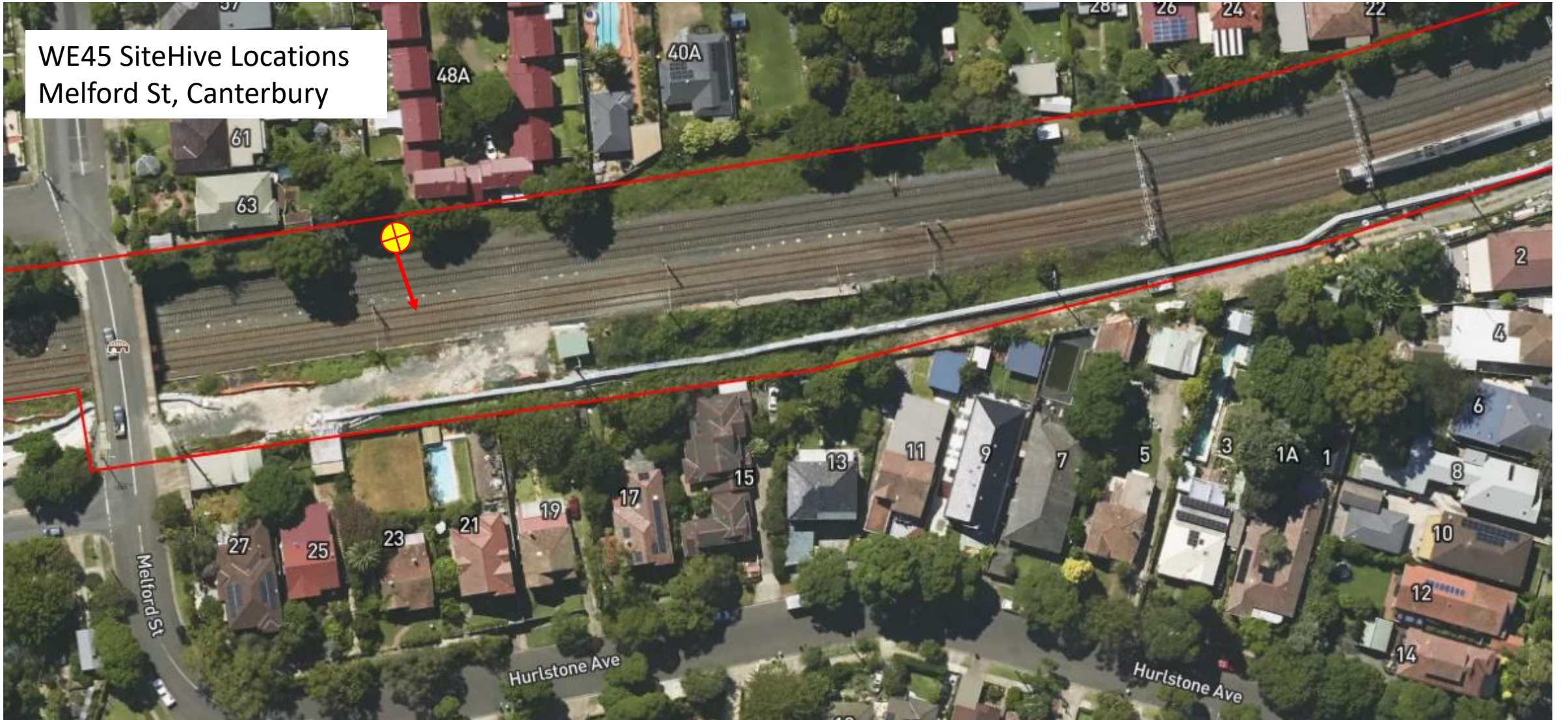
WE45 SiteHive Locations
Marrickville



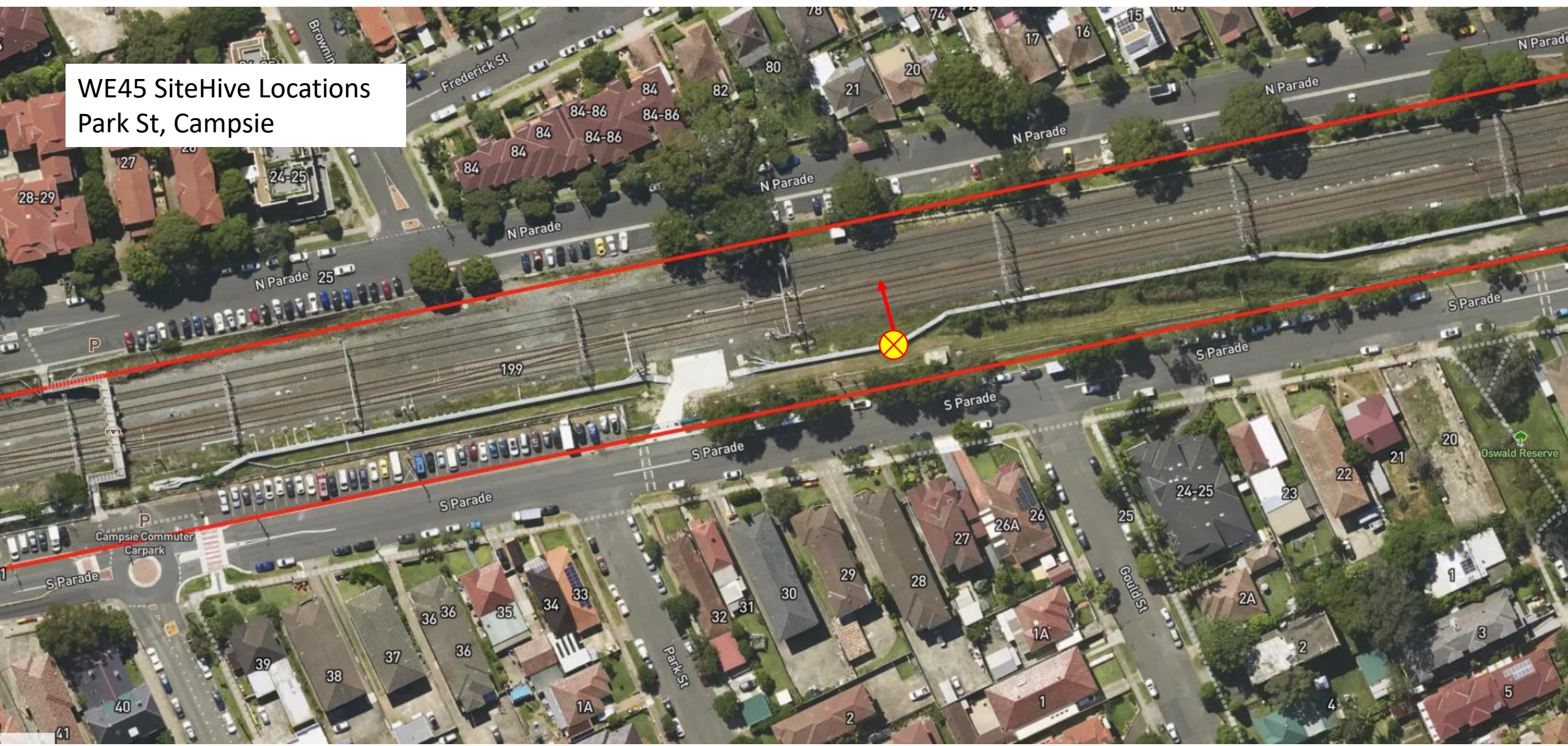


WE45 SiteHive Locations
Ewart St, Dullwich Hill

WE45 SiteHive Locations
Melford St, Canterbury



WE45 SiteHive Locations
Park St, Campsie



Attachment 2 – Community Notification

Community Notifications were provided to residents of:

- Canterbury,
- Marrickville,
- Hurlstone Park,
- Dulwich Hill, and
- Campsie.

Please refer to the following community notifications for works undertaken at the previously stated locations.

Notification – Marrickville

May 2023

Sydney Metro is Australia’s biggest public transport project.

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Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Marrickville Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Marrickville (along the rail corridor):	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Cable Jointing • Modification to Livingstone Road bridge including periodic lane closures and removal of the parking lane along Livingstone Road bridge, as well as temporary parking removal along the southern side of Marrickville Avenue adjacent to the rail corridor • Delivery of plant and material including preparatory activities for upcoming out-of-hours work <ul style="list-style-type: none"> ○ Temporary parking removal on Warburton Street between Illawarra Road and Wooley Lane from 3 May to 9 May
Around Marrickville Station	<ul style="list-style-type: none"> • Delivery, storage and removal of materials and plant through Wooley Lane, Riverdale Avenue and Victoria Road • Installation of fencing, galvanised steel troughing, cable service routes, electrical work variously around the station • Footpath work - The path between Station Street and Victoria Road will remain closed • Contractor work at the service equipment building • Testing and commissioning activities
Services building site in the rail corridor, off Victoria Road	<ul style="list-style-type: none"> • Delivery, storage, and removal of materials and plant • Installation of fencing to the perimeter of the building • Installation of building services and equipment, padmount cabling and driveway excavation • Victoria Road crossover and footpath work • Concrete truck deliveries and concrete pumps • Testing and commissioning of the Metro Services Building • Ongoing termination work
Substation site (off Randall Street behind Albermarle Street)	<ul style="list-style-type: none"> • Site mobilisation including using sections of Randall Street • Traffic control to facilitate truck movements from Livingstone Road into Randall Street • Installing glazed tiles on facade panels and anti-graffiti paint • Installing cables, cable supports, cable tray structure as well as mechanical and electrical fit out • Installing traction substation gates, doors, and permanent fencing • Installing streetscaping including driveways, kerbs, and footpaths, plus landscaping • Testing and commissioning activities

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / time	Details of out-of-hours (including night) work
Mid-week between 6pm and 7am Monday 1 May to Wednesday 31 May 2023 (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
Upcoming rail possessions: <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May 2023 • Friday 19 May to Sunday 21 May 2023 	<ul style="list-style-type: none"> • Installation of Hearing Loops on Platforms 1 and 2 • Tactile rectification work • Installation of fencing • Electrical containment work • High voltage cabling at Wooley Lane and Illawarra Road overpass and the rail corridor • Traction negative bar installation at Marrickville Station • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Installing fittings and adjustments to galvanised steel troughing, fixtures to segregation fence piles and cable pulling • Piling work between ARTC and Bankstown tracks

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Chris** or email LinewideMetro@transport.nsw.gov.au. For all other work please ask for **Julian** or email SouthwestMetro@transport.nsw.gov.au. **Thank you for your cooperation while we complete this essential work.**

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

Notification – Dulwich Hill

May 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Dulwich Hill Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Dulwich Hill (along the rail corridor)	<ul style="list-style-type: none"> • Cable jointing • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and materials including preparatory activities for upcoming out-of-hours work
Around Dulwich Hill Station	<ul style="list-style-type: none"> • Excavation, concrete and landscaping work within precinct area • Services and fit-out work to new footbridge including paving • Delivery and installation of new lift equipment to footbridge • Construction of new platform and plaza rooms under the footbridge • Installation of new station equipment and cabling
Services building site at Ewart Lane	<ul style="list-style-type: none"> • Concrete work including pouring and finishings • Earthing work around padmount substation • Installation of external façade and solar panels to roof • Internal building fit-out work • Delivery and installation of equipment • Delivery of material and plant via Ewart Lane • Scaffolding installation and removal • Local cabling for padmount • Ongoing termination work
Substation site (off Randall Street behind Albermarle Street, Marrickville)	<ul style="list-style-type: none"> • Site mobilisation including using sections of Randall Street • Traffic control to facilitate truck movements from Livingstone Road into Randall Street • Installing glazed tiles on facade panels and anti-graffiti paint • Installing cables, cable supports, cable tray structure as well as mechanical and electrical fit-out • Installing permanent fencing • Streetscaping including driveways, kerbs, footpaths, plus landscaping • Testing and commissioning

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

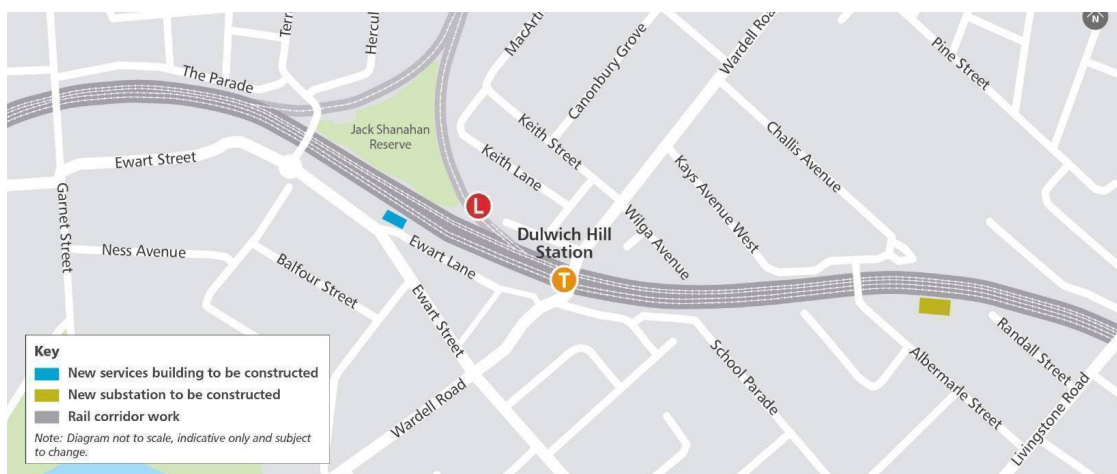
Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table overpage.

Date / time	Details of out-of-hours work
<p>Mid-week between 6pm and 7am Monday 1 to Wednesday 31 May 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May • Friday 19 May to Sunday 21 May 	<ul style="list-style-type: none"> • Platform drainage work • Completion of brickwork under Stair 02 • Remaining glazing work to stairs and lift shafts • Asphaltting work at Platforms • Adjustment of hoardings at Platforms • Installation of station equipment • Installation of new corridor access stairs to ends of platforms • Cable pulling and services work and installations within the rail corridor • Activities associated with bridge upgrades including installation of anti-throw screen fixtures along Ness Avenue bridge involving temporary lane closures along Ness Avenue between Ewart Street and Terrence Road • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Piling work between ARTC and Bankstown line tracks • Installing fixtures to segregation fence piles • Installing metal bars on the train tracks

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Keeping you informed

Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Alana/Grace** or email LinewideMetro@transport.nsw.gov.au. For all other works please ask for **Claire** or email SouthwestMetro@transport.nsw.gov.au.

Thank you for your cooperation while we complete this essential work.

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Notification – Hurlstone Park

May 2023

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Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Hurlstone Park Station (weather and site conditions permitting).

Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Hurlstone Park (along the rail corridor):	<ul style="list-style-type: none"> Site investigations and surveys including (but not limited to) non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing Delivery of construction plant and materials Removal of trees, vegetation and asbestos as required Installation of fencing, cables (including jointing) and cable service route (CSR) including cable pulling Work associated with installation of future security fence (boundary fence) Installation of segregation fencing and bridge anti-throw screens Modification works to bridges at Church Street including temporary removal of parking along Church Street Work associated with installation of fence panels including periodic lane closures along Melford Street
Around Hurlstone Park Station	<ul style="list-style-type: none"> Site investigations and surveys including (but not limited to) non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing Use of access gates and laydowns at Keir Avenue, The Parade, Ewart Street, Railway Street and Foord Avenue Delivery of construction plant and materials Asphalting, drainage, and concreting works and continuation of fencing work Installation of balustrades and associated glazing work, including artwork Footpath closures for footpath work with pedestrian and traffic detours in place under the direction of traffic control Paving work around concourse area Galvanised steel troughing (GST) work High level containment work for electrical, communication and other services Ceiling and glazing work at concourse and on stairs Platform fencing works and platform equipment installation Footpath work within the station precinct resulting in temporary loss of parking on Floss St and Duntroon St Commencement of lift car installation Construction work to city side of Duntroon St bridge, platform finishing works and pavement work Site shed layout adjustments as required to facilitate ongoing construction works, may result in traffic impacts
Services building site off Railway Street	<ul style="list-style-type: none"> Delivery of construction plant and materials Site investigations and surveys as above and ongoing termination work Installation of fencing, cables, and cable service route (CSR) and galvanised steel troughing (GST) Work associated with installation of future security fence (boundary fence) Resurfacing of roadways following services investigation and installation, under traffic control guidance Installation of structural steel, roofing & cladding requiring plant for installation and FRP work Minor roofing and wall cladding works and site shed layout adjustments as required Services connections for chiller units and installation within building structures including cladding and doors Driveway slab construction (including kerbs, gutters, ACO drain, bollards, etc.) Brick wall construction to precinct area Jackhammering and excavation work to facilitate structures and services installation, with required dust and noise mitigation measures in place

Substation site, off Hutton Street	<ul style="list-style-type: none"> • Site mobilisation and excavations • Installing cables, cable supports, and mechanical and electrical fit out • Traffic controllers to facilitate truck movements on Hutton Street • Installing glazed panels into the facade walls and anti-graffiti paint • Installing permanent fencing • Streetscaping including driveways, kerbs, and footpaths, plus landscaping • Testing and commissioning
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*From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.

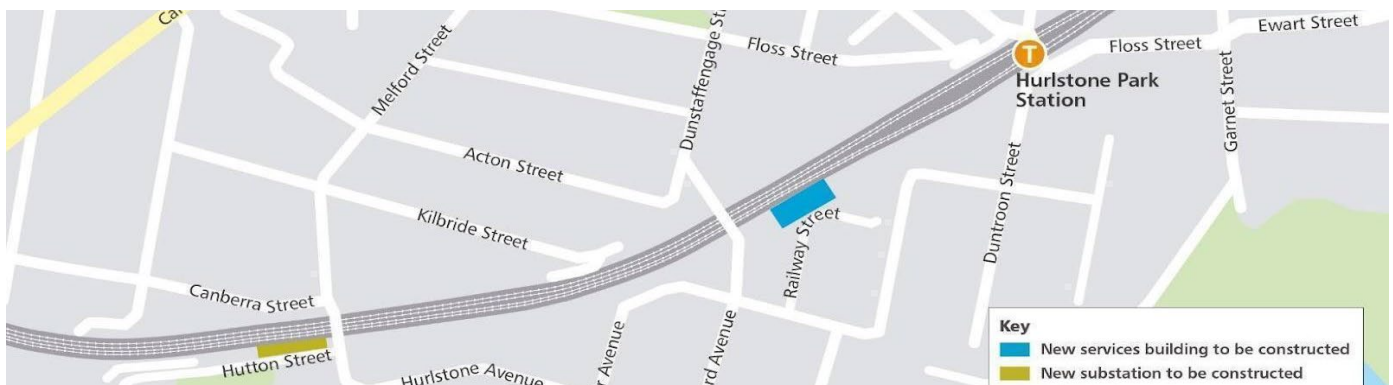
Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / time	Details of out-of-hours (including night) work
Mid-week between 6pm and 7am Monday 1 to Wednesday 31 May 2023 (for no more than 3 nights per week)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Concrete work associated with bridge upgrades.
Upcoming rail possessions: • Friday 5 May to Sunday 7 May • Friday 19 May to Sunday 21 May	<ul style="list-style-type: none"> • Platform glazed canopy installation, platform asphaltting, equipment installation and fencing and fixtures work • Earthing installation • Use of Keir Avenue, The Parade and Ewart Street access points • Glazed balustrade work • Temporary work to facilitate permanent works installation • Service work including electrical, communications, plumbing and mechanical • Traffic control as required to facilitate completion of scope • Site investigations as detailed above • Activities associated with bridge upgrades including temporary lane closures and parking changes in nearby areas • Work associated with installation of fence panels including periodic lane closures along Melford Street • Piling work between ARTC and Bankstown tracks

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.



Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Chris** or email linewideMetro@transport.nsw.gov.au. For all other works please ask for **Hilda** or email SouthwestMetro@transport.nsw.gov.au. **Thank you for your cooperation while we complete this essential work.**

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

Notification – Canterbury

May 2023

Sydney Metro is Australia’s biggest public transport project.

By 2030, Sydney will have a network of four metro lines, 46 stations and 113km of new metro rail.

Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Canterbury Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**. You may also notice an increase in plant and materials being removed from our sites as contractors complete their scope along the alignment.

Location	Details of work during standard construction hours (daytime)
Canterbury (along the rail corridor)	<ul style="list-style-type: none"> • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • De-vegetation and tree clearing throughout the rail corridor where required • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Modification work to bridges at Church Street footbridge including temporary removal of parking along Church Street cul-de-sac • Electrical and cable work within rail corridor
Around Canterbury station	<ul style="list-style-type: none"> • Storage and removal of materials and plant • Station equipment room cabinet work • Installation of drainage and services, concreting, steel and brick work, cladding, (a partial lane closure may be required during this period, signage and traffic control will be in place) • Glazing of footbridge, safety fencing and stair canopy, and structural steel infill for footbridge glazing for motorised sliding door • Concourse civil work, retail cladding, platform fencing and work on the Station buildings • Broughton Street footpath and electrical work and furniture installation • Brickwork, structural steel and cladding installation at Metro Services Building (MSB) • Installation of raised access and padmount flooring and internal painting and sealing at the MSB • MSB roofing, excavation, gutter, and downpipe work and ongoing termination work • Installation of water services, doors, roller doors, switchboards, solar panels, roof safety system, inground and above ground services, fencing, scaffolding and modification at the MSB • Brickwork installation on Platforms 0 and 1 and light fittings and building services on platforms • Installation of louvre doors for the mechanical room, lifts equipment and boundary fencing • Electrical containment installation on platforms and the pedestrian ramp • Demobilisation of amenities from carpark and 6 Charles St and 6 Broughton St storage areas • Local cabling for padmount
Former Bowling Club	<ul style="list-style-type: none"> • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Temporary parking impacts on Close Street • Vegetation management
Substation site off Hutton Street	<ul style="list-style-type: none"> • Site mobilisation and excavations and testing and commissioning • Installing cables, cable supports, and mechanical and electrical fit out • Traffic controllers to facilitate truck movements on Hutton Street • Installing glazed panels into the facade walls and anti-graffiti paint • Installing traction substation gates, doors, and permanent fencing • Installing streetscaping including driveways, kerbs, and footpaths, plus landscaping
Other areas	<ul style="list-style-type: none"> • Cable replacement and jointing work, and the testing and commissioning of electrical systems at the joint bay on Cooks Avenue and Onslow Lane (including Onslow Lane)

**From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impact will be low.*

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Properties in proximity to scheduled work will be notified prior to work starting. Planned out-of-hours work following the shutdown are detailed in the table below.

Date / time	Details of out-of-hours work and work during planned rail shutdowns
<p>Mid-week between 6pm and 7am Monday 1 May to Wednesday 31 May 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Electrical work on the Metro Services Building • Roofing and brick work and various civil work • External Anti-Graffiti Painting • Installation of signal equipment and cable pulling • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work • Concrete work associated with bridge upgrades
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May 2023 • Friday 19 May to Sunday 21 May 2023 	<ul style="list-style-type: none"> • Installation of glazing at the footbridge, concourse and lift canopy • Electrical and building work at the concourse • Installation of cladding on Metro Services Building • Brickwork cleaning under stairs and staircase work • Installation of fences on the platform • Installing fixtures to segregation fence piles • Tile rectification on platforms • Installation of trackside equipment on Platform 2 • Piling work between ARTC and Bankstown line tracks • Pedestrian fence installation on Canterbury Road and Broughton Street • Cable pulling work within rail corridor • Temporary parking removal on Charles Street • Installation of tiles, rectifying defects, and painting at substation • HV cabling in rail corridor • Traction negative bar installation at Canterbury Station • Installing fixtures to fence piles, over-head-wire adjustments, and signal work • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities, and fencing • Temporary removal of parking along Broughton Street intersection with John Street • Modification work at Church Street footbridge including temporary closure of Church Street footbridge including temporary removal of parking along Church Street cul-de-sac • Bridge upgrade work including installation of anti-throw screen fixtures along Charles Street bridge and Wairoa Street bridge • Temporary lane closures along Charles Street intersection with Broughton Street and Wairoa Street between East and South Parade • Work associated with installation of fence panels including periodic lane closures along Melford Street between Hutton and Canberra Streets

Equipment used for the above work will include heavy machinery (including but not limited to excavators, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.

Keeping you informed

Properties close to the rail corridor will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24-hour community information line). If you have questions about the **substations** please ask for **Chris** or email LinewideMetro@transport.nsw.gov.au. For all other work please ask for **Julian** or email SouthwestMetro@transport.nsw.gov.au.

Thank you for your cooperation while we complete this essential work.



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

Notification – Campsie

May 2023

Sydney Metro is Australia’s biggest public transport project.

By 2030, Sydney will have a network of four metro lines, 46 stations and 113 km of new metro rail.

Sydney Metro is revolutionising how Australia’s biggest city travels, connecting Sydney’s north west, south west and greater west to fast, reliable turn-up-and-go metro services with fully accessible stations.

Passenger services from Chatswood to Sydenham will commence in 2024.

In May, work will continue along the corridor and at Campsie Station (weather and site conditions permitting). Work will be undertaken during standard construction hours, **Monday to Friday 7am-6pm** and **Saturday 8am-6pm**.

Location	Details of work during standard construction hours (daytime)
Campsie (along the rail corridor)	<ul style="list-style-type: none"> • Cable jointing within the rail corridor and installation of cable service route • De-vegetation and tree clearing throughout the rail corridor where required • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
Around Campsie Station	<ul style="list-style-type: none"> • Concourse building work including building services, fit-out and ceiling work • Waterproofing and flooring work within the concourse • Concourse paving work • Platform building work including building services and fit-out work • Platform fencing work • Local footpath and traffic control established on Beamish Street footpath to safely facilitate the work as needed • Continued management and modifications of hoardings and work zones • Joint bays - South Parade, between Harold and Duke Streets; and Gould Street, between Evaline and Redman Streets: replacing cable, jointing cables into place, testing and commissioning electrical systems
Services building site at Lilian Lane opposite Dewar Street	<ul style="list-style-type: none"> • Progressing the internal building fit-out • Start of cable pulling in building area • Equipment and board building services terminations • Local footpath and traffic control established on Lilian Lane to facilitate the work as needed • Local cabling for the padmount • Ongoing termination work • Painting to external building façade
Substation site (Off Lilian Street)	<ul style="list-style-type: none"> • Installing glazed panels into the facade walls and anti-graffiti paint • Traffic controllers to facilitate truck movements on Lilian Street • Bulk power supply installs into the traction substation • Excavation and construction of base for battery charging transformer • Installing cables and cable supports, and mechanical and electrical fit-out • Streetscaping including permanent fencing, plus landscaping • Commencement of site amenities removal

From time to time we may finish work later than 6pm as we complete concrete pours. This will entail finishing off poured concrete using manual and powered floats and may continue until 10pm. This may occur on up to four separate evenings during the month. The noise impacts will be very low.

Out-of-hours work

Due to the nature of some activities and for the safety of workers, some work will occur outside standard construction hours when trains are not running. Some equipment will also be delivered outside standard construction hours in line with Transport for NSW requirements for the movement of oversized vehicles. Planned out-of-hours work is detailed in the following table.

Date / time	Details of out-of-hours work and work during planned rail shutdowns
<p>Mid-week between 6pm and 7am Monday 1 to Wednesday 31 May 2023 (for no more than 3 nights per week)</p>	<ul style="list-style-type: none"> • Concourse paving work • Concourse roofing and building services work • New concourse shop fit-outs • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations, de-vegetation and surveys for drainage, utilities and fencing • Delivery of plant and material including preparatory activities for upcoming out-of-hours work
<p>Upcoming rail possessions:</p> <ul style="list-style-type: none"> • Friday 5 May to Sunday 7 May • Friday 19 May to Sunday 21 May 	<ul style="list-style-type: none"> • Concourse paving work • Concourse building work including building services, fit-out and ceiling work • Platform building work including building services and fit-outs • Platform fencing work and painting • Local footpath and traffic control establishments to facilitate the work on Beamish Street and Lilian Lane • Continued management and modifications of hoardings and work zones • Concourse building facade mesh screen removal and replacement • Activities associated with bridge upgrades including installation of anti-throw screen fixtures along Wairoa Street Bridges including: <ul style="list-style-type: none"> ○ Temporary lane closures along Wairoa Street between East and South Parade ○ Temporary removal of parking along South Parade west of Duke Street • Installation fixtures to segregation fence piles • Various site investigations and surveys including but not limited to non-destructive digging, soil assessments, geotechnical investigations and surveys for drainage, utilities, and fencing • Temporary closure of Duke Street footbridge (pedestrian diversions via South Parade) • Local footpath and traffic control establishments to facilitate the work on Loftus Street and Lilian Lane • Piling work between ARTC and Bankstown tracks

Equipment used for the above work will include heavy machinery (including but not limited to excavators, trucks, hydraulic ram, jack hammers, vacuum trucks, slashers, motorised saws, concrete trucks, elevated work platforms, concrete pumps, cranes, cable pulling equipment, road sweeper, compactors, lighting towers, forklifts, chainsaws, and water carts), and hand and power tools.

Access to buildings and driveways will be maintained at all times. Some of this work may be noisy, however we will take every possible step to minimise noise such as switching off equipment when not in use and using non-tonal reversing beepers.

Keeping you informed

Properties close to scheduled work will receive notifications when construction work is scheduled to occur. You can contact us on **1800 171 386** (24 hour community information line). If you have questions about the **substations** please ask for **Alana/Grace** or email LinewideMetro@transport.nsw.gov.au. For all other work please ask for **Claire** or email SouthwestMetro@transport.nsw.gov.au.

Thank you for your cooperation while we complete this essential work.



 **1800 171 386** Community information line open 24 hours

 southwestmetro@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**