

ACOUSTICS ADVISOR ENDORSEMENT SYDNEY METRO WEST (SSI 10038)

Review of	Central Tunnelling Package: DNVIS for Burwood North	Reviewed document reference:	21028-NV-RP-4-13
Prepared by:	██████████ Alternate Acoustics Advisor		Revision 13
Date of issue:	12 April 2024		Dated: 4 April 2024

As approved Alternate Acoustics Advisor (AA) for the Sydney Metro West project, I reviewed and provided comments on a previous version of revision 13 of the Sydney Metro West – CTP – Detailed Noise and Vibration Impact Statement (DNVIS) for Burwood North.

Revision 13 is an update from Revision 11 to include the phase of TBM traverse, maintenance, relaunch and support, and subsequent demobilization of the site.

A water treatment plant (WTP) located outside of the acoustic shed will operate on a 24-hour basis to support tunnelling works. I note that the DNVIS includes the implementation of all feasible and reasonable measures to mitigate noise from the WTP. In addition, in response to my comments, AFJV advised that barriers such as noise curtains will be used to shield residents from the pumps and air compressor of the WTP. The curtains will be placed above and to the North of each unit as a minimum. While the curtains cannot totally encase the units for risk of overheating and access requirements, they will block direct noise transmission to the nearest residences. A light steel frame will be placed over each unit, to support the curtains. Curtain proximity to each unit will vary from 500mm – 1,500mm on a case-by-case basis to account for surrounding pipework, other units, access for operation & maintenance.

I also note that:

- during Out of Hour Work periods all doors (on the acoustic shed) will be closed except when construction vehicles enter or exit
- upstand demolition during the demobilization phase is predicted to exceed 75dBA, therefore Condition of Approval D36 restricted hours for Highly Noise Intensive Work will be applied for this work.

Based on the above, I am satisfied that my comments have been adequately addressed and I endorse Revision 13 of AFJV's DNVIS for Burwood North, in accordance with Condition of Approval A36(e).

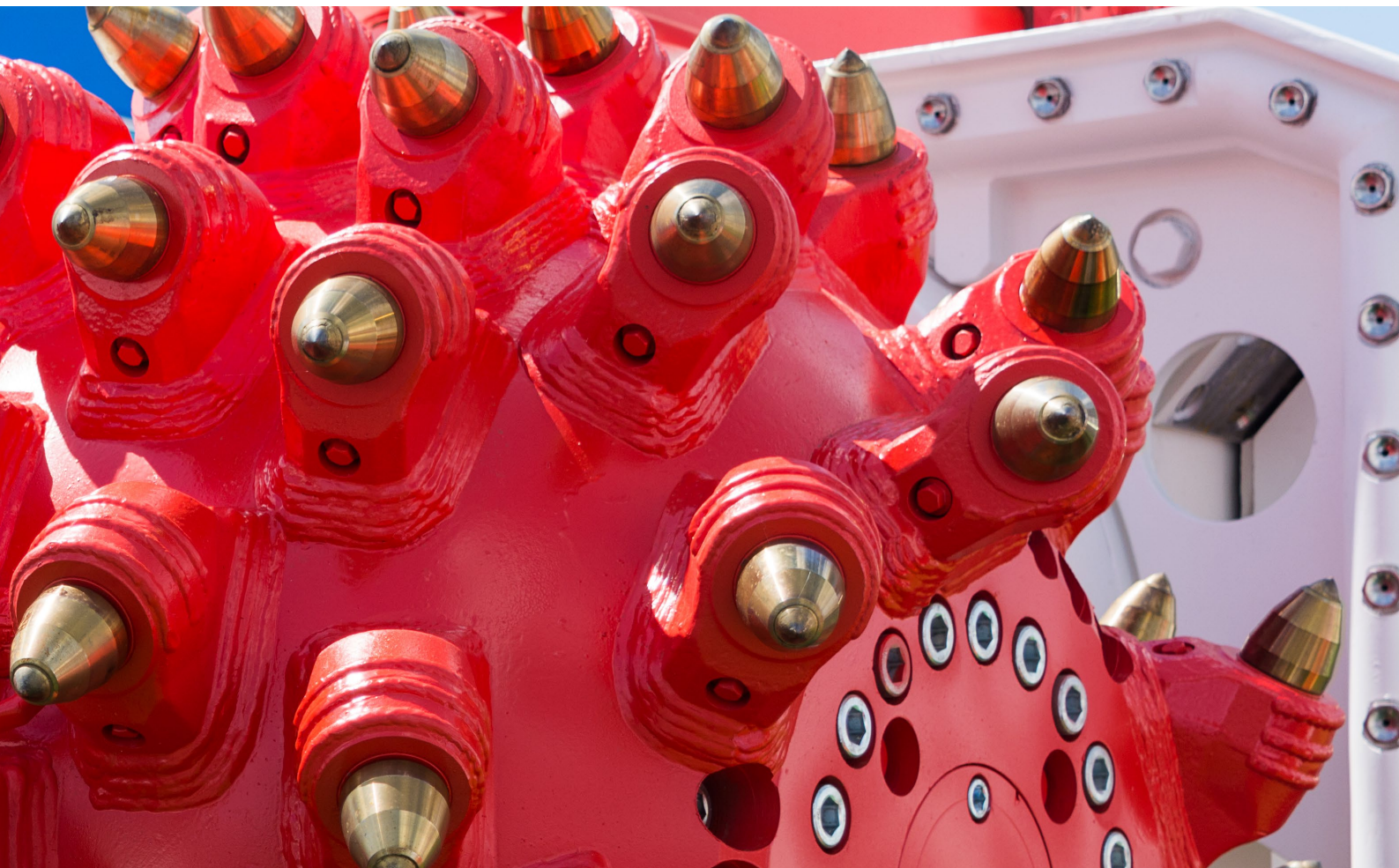
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██████████ Metro West Alternate Acoustics Advisor

**Acciona Ferrovia Joint Venture
Sydney Metro West Central Tunnelling Package
Burwood North**

**Detailed noise and vibration impact statement
April 2024**

Doc no. 21028-NV-RP-4-13





Detailed noise and vibration impact statement

Client	Acciona Ferrovia Joint Venture
Project	Sydney Metro West Central Tunnelling Package
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Revision history

0	11 November 2021	Draft report to client
1	12 November 2021	Amended following client comments
2	10 December 2021	Amended following AA & ER comments
3	25 February 2022	Updated demolition plan and equipment list
4	18 March 2022	Updated to include AA comments 18/03/2022
5	30 June 2022	Updated to reflect minor change to hoarding
6	8 July 2022	Updated to include capping beam, ground anchor works and acoustic shed references
7	8 August 2022	Updated DNVIS to include acoustic shed and excavation scenarios
8	8 September 2022	Updated with AA comments
9	23 May 2023	Updated acoustic shed design
10	11 July 2023	Updated with AA/ER comments
11	15 August 2023	Additional detail in Section 2.1.1 and 5.3
12	7 March 2024	Updated with Operations, TBM traverse, walkthrough and relaunch details
13	4 April 2024	Updated to include AA comments



Contents

Definition of acoustic terms and acronyms	v
1. Introduction.....	1
1.1 Project overview.....	1
1.2 Detailed noise and vibration impact statement.....	4
2. Construction works and hours.....	5
2.1.1 Planned works.....	5
2.1.2 Approved construction hours.....	12
2.1.3 Variations to work hours	12
3. Existing environment	14
3.1 Existing environment.....	14
3.2 Heritage items	14
3.3 Noise catchment areas.....	14
3.4 Background noise survey	15
4. Noise and vibration assessment criteria	16
4.1 Overview.....	16
4.2 Noise.....	16
4.2.1 ICNG.....	16
4.2.2 Sleep disturbance	17
4.2.3 Ground-borne noise.....	17
4.2.4 Construction traffic.....	18
4.2.5 Additional mitigation measures	18
4.3 Project-specific construction noise management levels.....	19
4.4 Vibration management	20
4.4.1 Human comfort.....	20
4.4.2 Buildings.....	20
4.4.3 Heritage	20
4.4.4 Additional mitigation measures	21
5. Impact assessment.....	22
5.1 Plant and equipment	22
5.2 Noise modelling	22
5.3 Mitigation measures included in the modelling	22
6. Predicted noise levels.....	27
6.1.1 Overview.....	27



6.1.2 Site establishment works (Phases 1 & 5) 27

6.1.3 Construction within shed (Phases 2 - 4 & 6 – 8) 27

6.1.4 TBM tunnelling and support phase 27

6.1.5 Cumulative impacts..... 30

6.1.6 Sleep disturbance 30

6.2 Ground-borne noise 30

6.3 Construction traffic..... 30

7. Summary and recommendations.....33

7.1.1 Impact summary..... 33

7.1.2 Standard mitigation..... 33

7.1.3 Additional mitigation measures 35

7.1.4 Monitoring 36

7.1.5 Consultation 36

Appendix A. Land use survey and NCA maps

Appendix B. Proposed equipment and sound power levels

Appendix C. Construction noise and vibration contours

Appendix D. Detailed noise predictions for individual receivers

Definition of acoustic terms and acronyms

AA	Acoustic Advisor
AMM	Additional mitigation measures – applicable where standard measures have been implemented and NML is still expected to be exceeded.
Approved hours	Construction hours approved in the Project Conditions of Approval D35. These differ from “standard” hours defined in the ICNG. Work outside the approved hours does not imply the works have not been otherwise approved through the procedures outlined in the NVMP.
Assessment period	The period in a day over which assessments are made.
Background noise	The underlying level of noise present in the ambient noise, excluding the noise source under investigation.
CoA	Sydney Metro West – Concept and Stage 1 Conditions of Approval. Table 1 of the CoA also contains definitions related to the approval.
CSSI	Critical State Significant Infrastructure
Decibel (dB)	A measure of sound equivalent to 20 times the logarithm (to base 10) of the ratio of a given sound pressure to a reference pressure, and 10 times the logarithm (to base 10) of the ratio of a given sound power to a reference power.
dB(A)	Unit used to measure ‘A-weighted’ sound pressure levels. A-weighting is an adjustment made to sound-level measurement to approximate the response of the human ear.
dB(C)	Unit used to measure ‘C-weighted’ sound pressure levels, an adjustment made to sound level to approximate low frequency noise between 10 Hz and 200 Hz.
DPIE	NSW Department of Planning, Industry and Environment
EIS	Environmental Impact Statement
Extraneous noise	Noise resulting from activities that are not typical of the area such as construction, and traffic generated by holiday periods or special events such as concerts or sporting events. Normal daily traffic is not considered to be extraneous.
Highly affected receivers	Residential receivers are considered to be highly noise affected where construction activities are determined to have an LAeq, 15 minute noise level of 75 dB(A) or higher.
Highly noise intensive works	Construction activities which are defined as annoying under the ICNG. See Section 2.1.2.
ICNG	Interim Construction Noise Guideline (Department of Environment and Climate Change 2009)
Noise assessment criteria	A standard rule or test by which the acceptability of the nature and characteristics of noise may be judged or evaluated. Criteria are generally based on guidelines or standards developed by Government agencies (eg EPA) to protect the majority of people for the majority of the time from adverse impacts.
NCA	Noise Catchment Area

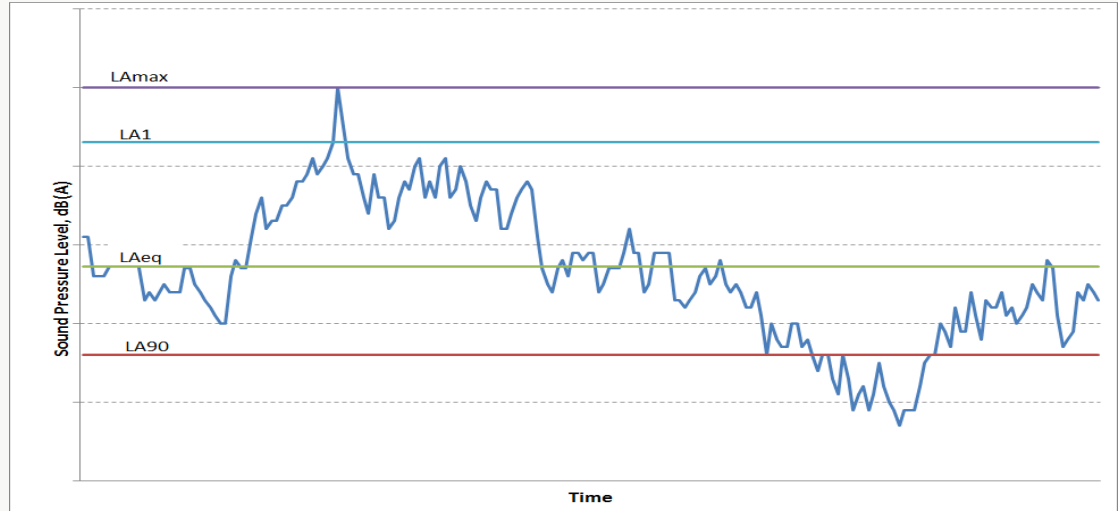
Noise level statistics

L_{A90} - The A-weighted sound pressure level exceeded 90% of the monitoring period. This is considered to represent the background noise.

L_{Aeq} - The equivalent continuous A-weighted noise level—the level of noise equivalent to the energy average of noise levels occurring over a measurement period.

L_{A1} - The A-weighted sound pressure level exceeded 1% of the monitoring period.

L_{Amax} - The maximum A-weighted noise level associated with the measurement period.



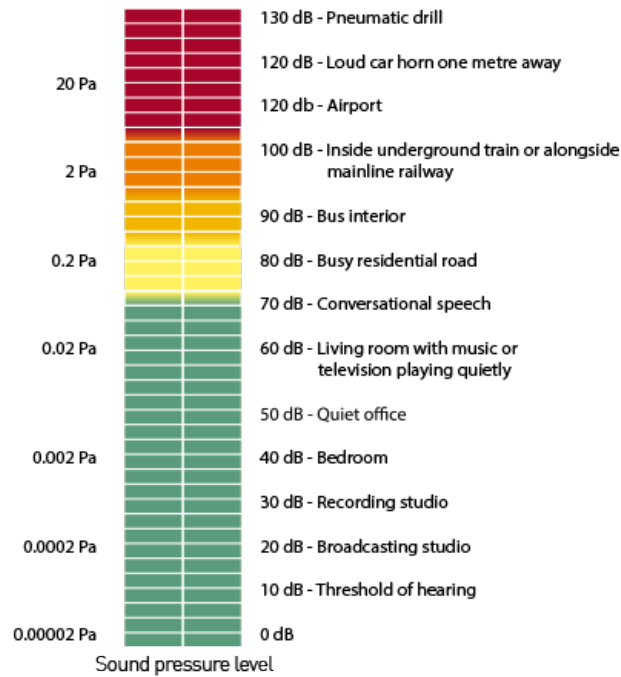
NML	Noise Management Level
NVMP	Noise and Vibration Management Plan
PPV	Peak Particle Velocity – Measurement of ground-borne vibration in units of mm/s
RBL	Rating Background Level - a single figure that represents the background noise level for assessment purposes
ROL	Road Occupancy Licence – granted by Transport for NSW and required for any activity likely to impact on traffic flow.
Sound Power Level (SWL)	The A-weighted sound power level is a logarithmic ratio of the acoustic power output of a source relative to 10-12 watts and expressed in decibels. Sound power level is calculated from measured sound pressure levels and represents the level of total sound power radiated by a sound source.

Sound Pressure Level (SPL)

This is the level of noise, usually expressed in dB(A), as measured by a standard sound level meter with a pressure microphone. The sound pressure level in dB(A) gives a close indication of the subjective loudness of noise.

A technical definition for the sound pressure level, in decibels, is 20 times the logarithm (base 10) of the ratio of any two quantities related to a given sound pressure to a reference pressure (typically 20 µPa equivalent to 0 dB). Examples of typical sound pressure levels are shown below.

Threshold of pain



Source: https://www.osha.gov/dts/osta/otm/noise/health_effects/soundpropagation.html

Tonal noise

Noise with perceptible and definite pitch or tone

VDV

Vibration dose value – used when assessing intermittent vibration as it is sensitive to peaks in vibration acceleration and accumulates the vibration energy received over the daytime and night-time periods

1. Introduction

1.1 Project overview

Sydney Metro is Australia's biggest public transport program comprising four main packages of work including Metro North West Line, Sydney Metro City and Southwest, Sydney Metro West and Sydney Metro Greater West. The Sydney Metro West component involves the construction and operation of a metro rail line, around 24km in length, between Westmead and the Sydney CBD.

The planning approvals and environmental impact assessment for Sydney Metro West has been split into a number of stages recognising the size of the project. This includes:

- Stage 1 – Concept and all major civil construction works including station excavation and tunnelling between Westmead and The Bays. Planning approval for this stage was granted in March 2021.
- Stage 2 – All major civil construction works including station excavation and tunnelling from The Bays to Sydney CBD
- Stage 3 – Tunnel fit-out, construction of stations, ancillary facilities and station precincts, and operation and maintenance of the Sydney Metro West line

Acciona Ferrovial Joint Venture (AFJV) was commissioned to deliver the Central Tunnel Package of Stage 1, comprising excavation of five sites and around 11.5 kilometres of twin-bore tunnel between The Bays and Sydney Olympic Park (the Project). An overview of the Project is presented in Figure 1-1, which includes the tunnel alignment and location of the station boxes at:

- The Bays
- Five Dock
- Strathfield
- Burwood North
- Sydney Olympic Park

This report covers activities for construction of Burwood North Station box and south shaft located near Burwood's shopping district and directly adjacent to Parramatta Road. The project comprises several phases including:

- Site establishment
- Excavation of the station box
- Mined Tunnels
- TBM traverse, maintenance, relaunch and support
- Demobilisation

An overview of the site layout of Burwood North is presented in Figure 1-2.

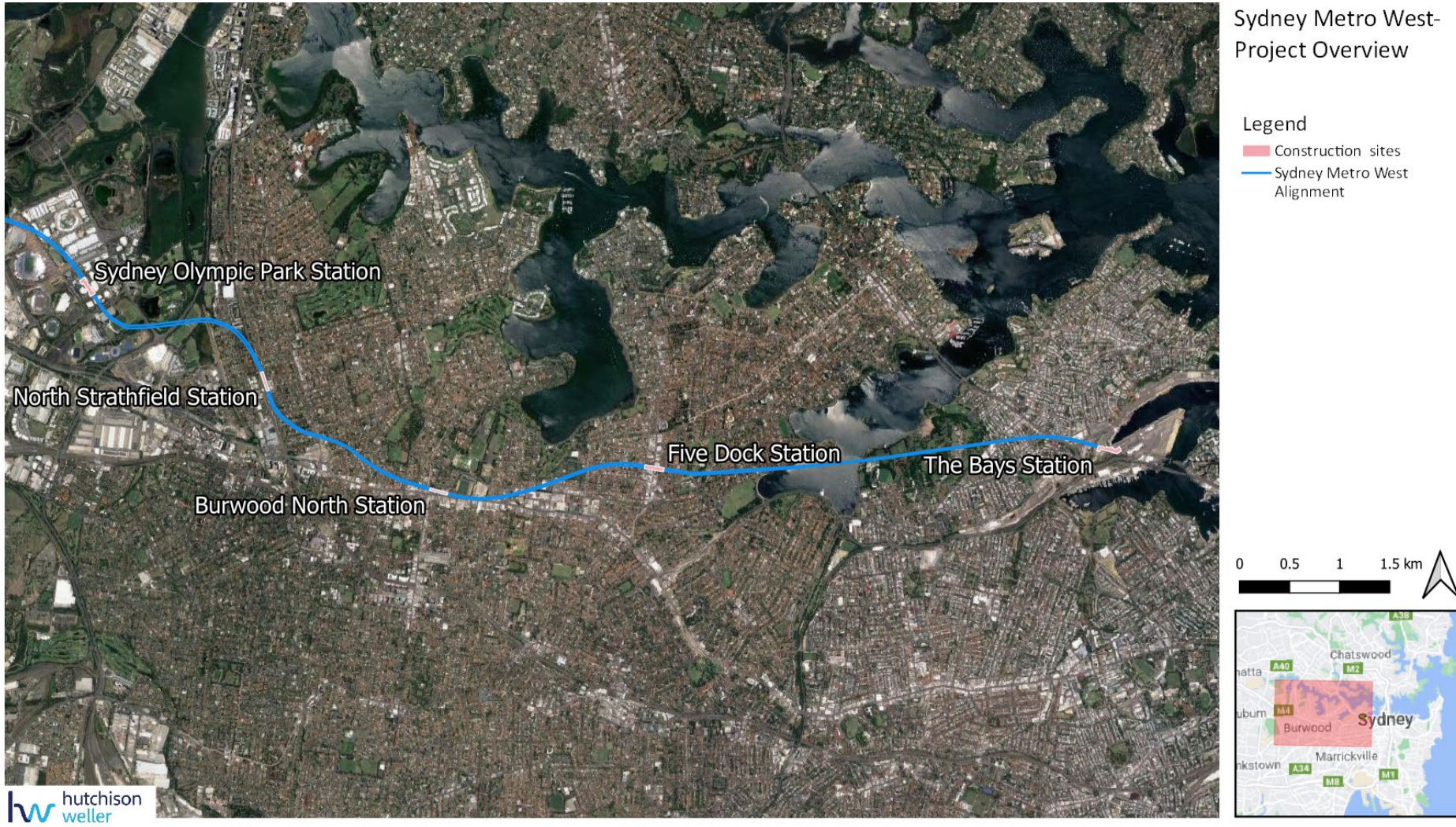


Figure 1-1 Overview of the CTP of Stage 1 of the Sydney Metro West Project.

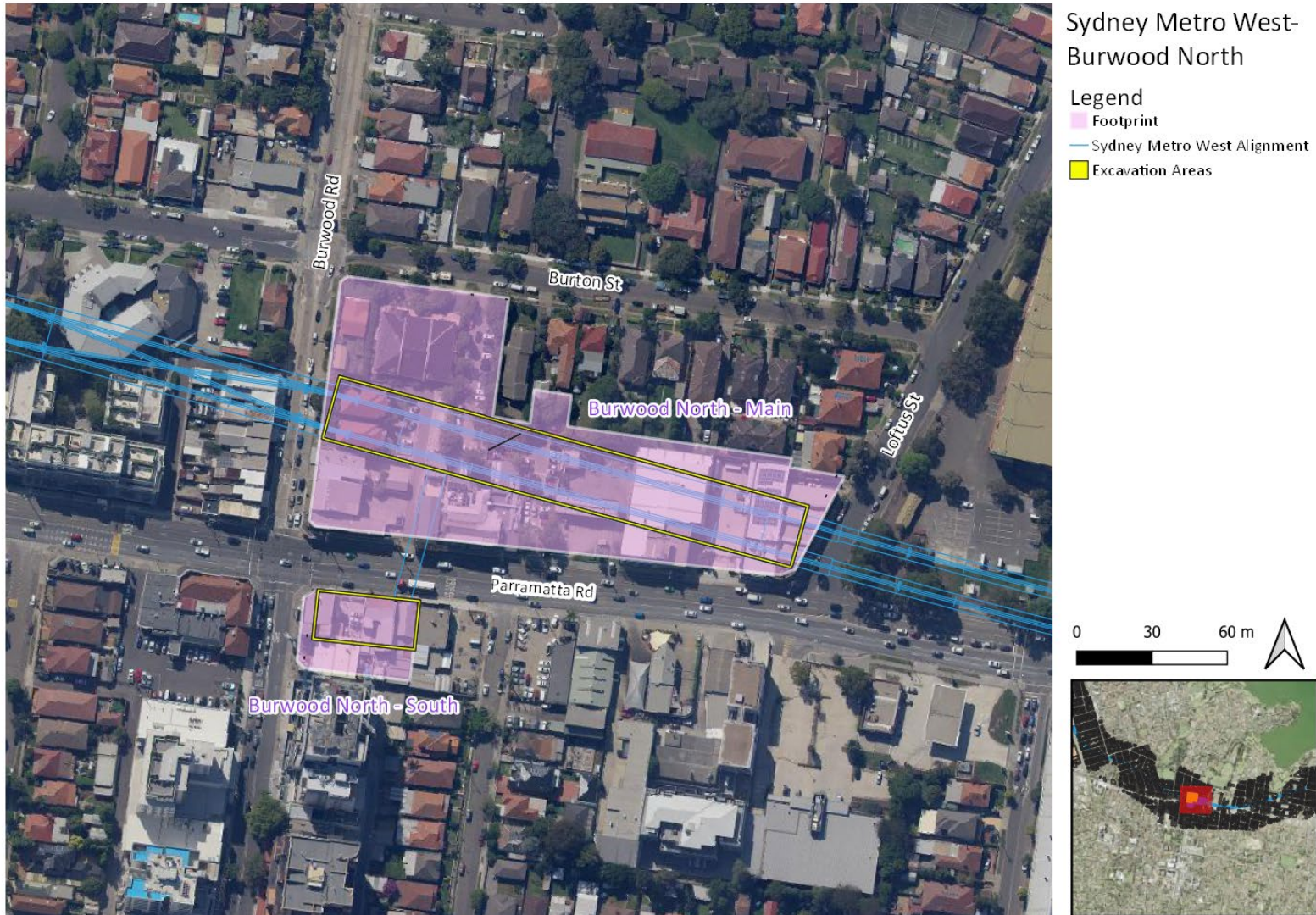


Figure 1-2 Burwood North construction site

1.2 Detailed noise and vibration impact statement

Considering the risk of noise and vibration impact is necessary to ensure appropriate mitigation and management measures can be applied. This Detailed Noise and Vibration Impact Assessment (DNVIS) has been prepared in accordance with the Sydney Metro (2020) Construction Noise and Vibration Standard, v 4.3 (CNVS) and supplements the Project's Construction Noise and Vibration Management Plan (CNVMP) as required in the Project's Condition of Approval (CoA) D43.

The objective of the DNVIS is to establish the location, nature and scale of proposed works, assess the level of impact on the community's amenity and include appropriate mitigation measures identified through consultation with affected sensitive land users.

The structure of this DNVIS addresses the requirements of the Condition of Approval D43 and the CNVS and includes:

- Section 2 – Construction works and hours
- Section 3 – Existing environment
- Section 4 – Noise and vibration assessment criteria
- Section 5 – Description of planned works, equipment and sound power levels
- Section 6.1 – Construction noise assessment – predicted noise levels and exceedances of objectives, including sleep disturbance
- Section 6.2 – Ground-borne noise assessment
- Section 6.3 – Construction traffic noise assessment
- Section 7 – Summary and recommendations including consultation

2. Construction works and hours

2.1.1 Planned works

Activities associated with Burwood North are separated into two areas, the Main Site (including Station Box) and the South Site, (a support shaft). Construction work outside these sites is covered under the CNVMP and the out of hours work protocol where activities are completed outside approved hours.

Construction phases for each of these sites broadly include site establishment, excavation and then tunnelling support. All works up to tunnelling support have now been completed. Once tunnelling is finalised, the project site will be demobilised in preparation for the next stage of the project, which will include civil construction works.

The anticipated program showing tunnelling support activities and beyond is illustrated in Table 2-3, showing the duration of each phase. The Burwood North project site is expected to be demobilised and ready for handover by about March of 2025.

Planning approval Consistency Assessment SMWCA10, under EP&A Act 1979, Division 5.2, was approved in August 2023 for Sydney Olympic Park and Burwood North noise mitigation. The consistency assessment proposed to alter the noise mitigation strategy to respond to change in construction methodology for station box excavation. Acoustic panels at Burwood North northern construction site are no longer proposed due to excavation of the station box in the area outside the acoustic shed occurring during approved construction hours only. Site specific noise mitigation measures nominated in the consistency assessment included:

- the existing acoustic shed (approximately 20 metres in height) would remain over the western portion of the station box where 24/7 tunnelling and spoil management is required
- elimination of general out of hours work for excavation of the eastern side of the station box and associated spoil management
- elimination of general out of hours work for the excavation and associated spoil management of the southern shaft, and tunnelling of the pedestrian adit
- various forms of hoarding are proposed, with a mix of 2.4 metre high hoarding and retention of existing building facades at the site boundary (noting vehicle access points would be required for site entry and egress)
- rock hammers will be used where required when breaking up building slabs, with alternative methods proposed in “no hammer” zones. If using hammers is unavoidable, noise mats or suitable noise screens around the activity would be investigated where practicable.
- avoidance of high noise impact works when reasonably practicable, with respite provided as per condition of approval D36
- community notifications and engagement including community information sessions and individual meetings with owners/tenants of neighbouring properties
- verification of the noise model by undertaking noise monitoring. If noise monitoring is higher than predicted then the works will be reviewed and additional feasible and reasonable measures will be implemented.

This update to the DNVIS provides additional assessment for work associated with tunnelling support at the main Burwood North project site. Work at the southern shaft has been completed and this site is expected to commence demobilisation in 2024. Demobilisation of the Burwood North project site is also included in this update and is expected to take around three months and will include:

- Removal of the gantry crane
- Demolition of the concrete upstands
- Demolition of the station box bridge
- Dismantling the acoustic shed and site offices

At the main station box, excavation works have been completed and mined tunnelling within the cross over cavern is being finalised. During the TBM operational support phase of the project, the acoustic shed will operate on a 24 hour basis to receive deliveries including segments and grout plant supplies. The grout plant will operate continuously within the acoustic to support tunnelling activities supplying both TBMs.

A water treatment plant located outside the acoustic shed will operate on a 24 hour basis to support tunnelling works. Deliveries of materials to the site will occur day and night however, egress via the Burton Street exit will be limited to daytime hours between 7 am and 10 pm, only.

The arrival of the TBMs at the Burwood station box will trigger the next phase of works associated with TBM tunnelling and support, which will include:

- TBM traverse
- TBM maintenance
- TBM relaunch
- Cross passage ramp deliveries and installation
- Spoil handling
- Materials deliveries

A discussion of tunnelling definitions used for this DNVIS and details of the TBM operation and support activities have been included below.

TBM tunnelling

Under Planning Approval Condition D37 (d) tunnelling is considered a prescribed activity and permitted 24/7.

Within EIS Technical Paper 2 Noise and Vibration Table 25, TBM launch, support and extraction; mucking out and spoil handling; and construction traffic for material supply to and spoil removal from tunnelling and underground excavation (station and ancillary facility sites) were considered aboveground construction activities proposed 24 hours per day, seven days per week. Additionally, tunnelling works were proposed 24 hours per day, seven days per week and the table noted “activities that support tunnelling may need to occur 24 hours per day, up to seven days per week.”

This is also supported by Table 13 of the SSI Assessment Report (DPIE, March 2021) which notes that aboveground long term activities to support tunnelling will be undertaken 24 hours a day seven days a week / outside standard construction hours.

EIS Technical Paper 2 Noise and Vibration Table 26 provides the following justification for out of hours work for tunnelling (including cross passages) and tunnelling support activities (including tunnel boring machine launch/retrieval and spoil handling):

Tunnelling and excavation works would define the overall Stage 1 duration. Earlier completion would bring considerable benefits to the community and would reduce the duration of construction related disruption.

Other aspects of the justification for out of hours tunnelling and support operations include:

- Need to install ground support systems immediately following excavation
- Need to construct cross passages closely following the progress of the TBMs to provide a critical secondary egress for people to evacuate and access for emergency services in the event of an incident
- Reducing peak demand on the electricity network
- Need to handle the spoil produced by the 24/7 operation of the tunnel boring machines and the proposed out of hours transport of spoil

On this basis, the proposed activities required for TBM tunnelling, both aboveground and underground, are considered tunnelling under condition D37 (d) and therefore permissible outside Condition D35 construction hours.

Following the arrival and relaunch of the TBM, tunnelling activities proposed at Burwood North outside Condition D35 construction hours below ground level will include:

- spoil transfer via conveyor,
- Multi Service Vehicles (MSV) delivering segments/personnel to the TBM
- use of other support vehicles as required.

The TBM is scheduled to arrive at the Burwood North in Q2 2024. After breaking through into the station box, the TBM will traverse the station box and then proceed underground through face. This operation will take approximately 2-3 weeks for each TBM to complete required 24 hour work.

The TBM traverse is completed by pushing against specialised steel structure (TBM rails) that simulates the tunnel lining segments, which will be located on the station box and cavern floor. The TBM rails are assembled progressively at the rear of the TBM shields after each push phase of the TBM. This continues until the TBM reaches the end of the stub tunnel prepared for TBM relaunch where ring segments can once again be installed.

During the TBM traverse, general maintenance will be carried out on the TBM's, to ensure they are ready to relaunch and complete tunnelling works towards North Strathfield. This maintenance is likely to include, but not limited to; replacement or refurbishment of cutting tools, cutting and welding of steel, replacement of components, use of oils and greases to replenish the machine. In order for this maintenance to be carried out, the team will require the use of mobile plant and hand tools. This could include forklifts, cranes, telehandler, EWP's and people moving light vehicles. Hand tools are likely to include welding equipment, electric saws and grinders, torque wrenches, drills and non-powered tools. Maintenance of mobile plant and equipment out of hours will be undertaken under the acoustic shed, within the cavern where possible; or under the conveyors.

To complete the traverse, assembly of the TBM rails will need to be continuous and will include the use of hand tools, which may include noise generating activities such as hammering metal components. These activities have the highest potential to generate noise impacts until the TBM recommences tunnelling.

When the TBM is relaunched from the stub tunnels at the end of the cavern, the cutting head will be inside the pre-excavated stub tunnel. Noise from the operation of the TBM gantries and maintenance activities during the relaunch will be the only audible noise source from the station box during this time.

The TBM tunnelling phase of the project at Burwood North will include TBM tunnelling support to transport spoil from the tunnel face and transport personnel and materials including ring segments to the TBM for installation. A

grout plant within the acoustic shed will operate to support tunnelling. Ring segments will be delivered and handled within the acoustic shed. The segments and materials will be transported using MSV that will operate up to 24 hours 7 days per week. TBM tunnelling support activities will rely on access through the Burwood North main site. This will include activities that are permitted by condition D37(d).

The cross passage ramps are similar to the TBM rails used in the traverse and will have a similar noise profile. These ramps will be constructed within the station box prior to being towed into position inside the tunnels using an MSV. The duration of the construction and relocation of the ramps will be undertaken intermittently over a period of approximately 5 months.

The spoil will be transported via a continuously operating conveyor system terminating at The Bays compound where spoil is stockpiled and transported off site. With the length of the conveyor increasing as the TBM progresses, additional booster systems will need to be installed periodically along the conveyor path. One booster system per conveyor/tunnel drive will be installed at Burwood North. AFJV will endeavour to install the booster within the footprint of the acoustic shed as a reasonable and feasible mitigation measure. Noise modelling for this DNVIS includes the operation of the conveyors and boosters in the main station box shaft without any additional attenuation as a conservative assessment scenario. The conveyor system will be turned off when not in use and maintained as per manufacturer's specifications to reduce potential noise from rollers and motors.

During TBM operation periodic maintenance may be required on the spoil conveyor and boosters which could involve the use of EWP's and hand tools. Constructing and towing steel ramps used to support tunnel cross-passage construction will also be required for a period of approximately 6 weeks. These activities will use similar construction techniques but with less impact than the TBM traverse and will be undertaken during standard construction hours where possible or within the footprint of the acoustic shed.

Following the TBM relaunch, the existing water treatment plant (WTP) will be required to support tunnelling works to manage water from TBM operation, groundwater and rain. Predicted noise levels for the WTP indicate that night time operations would exceed the NML and therefore reasonable and feasible mitigation measures will need to be implemented prior to OOHW to enable the WTP to support the tunnelling activities during the evening and night time periods.

Noise mitigations for the WTP will be implemented through local barriers around pumps and motors as well as the aerators for the clarifiers. Reductions of around 5 dBA per pump set and about 8-10 dBA for the clarifiers will need to be achieved to meet the night time NML. Verification noise monitoring will be undertaken when the WTP commences 24 hour operation to determine actual noise reduction and additional reasonable and feasible mitigation will be considered where NML is not achieved.

A harmonic sub will be installed at Burwood North site compound to support tunnelling by converting electricity into a useable form for powering the TBM. The harmonic sub will be within a shipping container located inside the site compound adjacent to the sub-station on the corner of Burton Street and Burwood Road. The noisiest vents will be pointed away from the residents on Burton Street. The noise from this item of plant is non-intrusive broadband and not expected to generate noise with annoying characteristics. The harmonic sub is predicted to be below NML during all periods. Noise monitoring will be undertaken to verify noise levels and additional mitigation measures will be implemented as necessary and where reasonable and feasible.

Table 2-1 and Table 2-2 present a summary the activities for each of the Burwood construction sites.

Table 2-1 Summary of activities at the Main site – All works completed

Construction phase	Activity		Outside approved hours?	
1. Site Establishment Completed	1a	General activities	No	
	1b	Construction utilities and facilities	No	
	1c	Temporary fencing/ hoardings	No	
	1d	Utilities disconnection/relocation	No	
	1e	Demolition and clearing site (No hammer)	No	
	1f	Demolition and clearing site (With hammer)	No	
	1g	Site Concrete Works	No	
2. Station Box Excavation Completed	2a	Piling	No	
	2b	Site structures including acoustic enclosures	No	
	2c	Capping beams	Detailed excavation, break back & capping beam	No
	2d	Active anchors	Ground stabilisation	No
	2e	Excavation & Retention	Whaler beam installation	No
	2f		Other Than Rock (OTR) – Dozer (No ripping)	No
	2g		Rippable – Dozer (Ripping)	No
	2h		Non-rippable – Excavators with hammers or eccentric rippers	No
	2i		Retention – Ground Anchors	No
3 Tunnel Nozzles Completed	3a	Excavation & Lining	Excavation	No
	3b		Nozzle bolting	No
4. Mined excavations Completed	4a	Excavations	Tunnelling (cavern excavation)	Within the underground cavern Evening and night
		Rock bolting	Cavern rock bolting	
		Shotcrete	Cavern roof shotcrete	
		Spoil muck out	Haulage/stockpile (station box/ acoustic shed)	Evening and night
	4b	Tunnel Lining	Concrete lining	Evening and night

Table 2-2 Summary of activities at the South site – All works completed

Construction phase	Activity		Outside approved hours?	
5. Site Establishment Completed	5a	Temporary fencing/ hoardings	No	
	5b	Utilities disconnection/relocation	No	
	5c	Demolition and clearing site	No	
	5d	Site Concrete Works	No	
6. Excavation Completed	6a	Piling	No	
	6b	Capping beams	Detailed excavation, break back & capping beam	No
	6c	Active anchors	Ground stabilisation	No
	6d	Excavation & Retention	Other Than Rock (OTR) – Dozer (No ripping)	No
	6e		Rippable – Excavator (Ripping and Hammer)	No
	6f		Retention – Ground Anchors	No
7 Mucking out Completed	7a	Spoil handling	Excavator load out	No
8. Pedestrian adit Completed	8a	Excavation	Clearing station entry	No
	8b	Tunnel Lining	Concrete lining	No

Table 2-3 Summary of activities tunnelling support

Construction phase	Activity			Outside approved hours?
9 Tunnelling	9a	TBM Traverse	TBM traverse from east to west of the station box	Yes
	9b	TBM maintenance	TBM maintenance	Yes
	9c	TBM relaunch	TBM relaunch (within the cavern)	Yes
	9d	Tunnelling support	Segment deliveries and spoil transport	Yes
	9e	Cross passage ramps	Assembly of ramps within station box area	Yes
10 Demobilisation	10a	Dismantling gantry crane	Site decommissioning	No*
	10b	Demolition of concrete upstands		No
	10c	Demolition of Bridge		No*
	10d	Dismantling acoustic shed/Offices		No*

*Out of hours work may be required for oversized vehicle movements or road closures only approved for night periods which is allowed under D37 and the EPL. These activities would be assessed and managed through the out of hours work process.

Table 2-4 Current shaft and cavern construction program for Burwood North (indicative)

Burwood North		2024												2025											
Site	Phase	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Main site (incl. station box)	TBM arrival – Preparatory works																								
	TBM Traverse																								
	TBM Maintenance																								
	TBM Relaunch																								
	Tunnelling Support																								
All sites	Demobilisation																								

2.1.2 Approved construction hours

Working hours are set by CoA D35 to D36 as summarised in Table 2-4. Use of power saws, rock breakers, drills and other tonal or impulsive activities are defined as annoying under the Interim Construction Noise Guideline (ICNG) and are ‘highly noise intensive works’.

Table 2-5 Approved construction hours

CoA	Construction activity	Monday to Friday	Saturday	Sunday / Public holiday
D35	Approved construction	7:00 am to 6:00 pm	8:00 am to 6:00 pm	No work (unless approved under out-of-hours work protocol)
D36	Highly noise intensive works	8:00 am to 6:00 pm ¹	8:00 am to 1:00 pm ¹	No work (unless approved under out-of-hours work protocol)

Notes:

1. if continuously, then not exceeding three hours, with a minimum cessation of work of not less than one hour.

2.1.3 Variations to work hours

In some circumstances, the planned construction activities would be undertaken outside the hours described in CoA D35 and D36. As specified in the Conditions of Approval, these activities include those which are:

- Low impact as described in CoA D37b), including:
 - i. construction that causes LAeq(15 minute) noise levels:
 - no more than 5 dB(A) above the rating background level at any residence in accordance with the ICNG, and
 - no more than the ‘Noise affected’ NMLs specified in Table 3 of the ICNG at other sensitive land user(s); and
 - ii. construction that causes LAFmax(15 minute) noise levels no more than 15 dB(A) above the rating background level at any residence; or
 - iii. construction that causes:
 - continuous or impulsive vibration values, measured at the most affected residence are no more than the preferred values for human exposure to vibration, specified in Table 2.2 of Assessing Vibration: a technical guideline (DEC, 2006), or
 - intermittent vibration values measured at the most affected residence are no more than the preferred values for human exposure to vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006).
- By Prescribed Activity, as described in CoA D37d) and applying to Burwood North construction scenarios:
 - i. tunnelling (excluding cut and cover tunnelling and surface works) which is permitted 24 hours a day, seven days a week; or
 - iii. delivery of material that is required to be delivered outside of standard construction hours in Condition D35 of this schedule to directly support tunnelling activities, except between the hours 10:00 pm and 7:00 am to / from the Five Dock and Westmead construction sites and to / from Burwood North construction site using any roads / streets other than directly from Parramatta Road; or
 - iv. haulage of spoil except between the hours of 10:00 pm and 7:00 am to / from the Five Dock and Westmead construction sites and to / from Burwood North construction site using any roads / streets other than directly from Parramatta Road;

- v. work within an acoustic shed where there is no exceedance of noise levels under Low impact circumstances identified in (37b), unless otherwise agreed by the Planning Secretary.

Note: Tunnelling does not include station box excavation

Where out-of-hours work is necessary, appropriate respite would be identified in consultation with the affected community, in line with the NVMP. As per CoA D51, consultation would include providing:

- a progressive schedule for periods no less than three (3) months, of likely out-of-hours work;
- a description of the potential work, location and duration of the out-of-hours work;
- the noise characteristics and likely noise levels of the work; and
- likely mitigation and management measures which aim to achieve the relevant NMLs (See Section 4) including circumstances of when respite or relocation offers would be available and details about how the affected community can access these offers.

3. Existing environment

3.1 Existing environment

The Burwood North construction zone covers two separate locations, namely Burwood North – Main (Main site), which includes the station box, and Burwood North – South (South site), as illustrated in Figure 1-2.

The Main site is located north of Parramatta Road, near the intersection of Parramatta Road and Burwood Road and covers an area of around 1.3 hectares. Adjacent land uses to this site, fronting Parramatta Road, are mostly commercial businesses with some mixed-use commercial/ residential buildings.

North of the Main site, residential receivers are on Burton Street, with the nearest backing directly onto the project boundary. To the north of the site is also St Luke's Church, which is heritage listed.

The South site is located to the south of Parramatta Road, also bounded by Burwood Road and Esher Street and Esher Lane with a footprint of around 1480 m². This site has commercial premises located to the east and mixed commercial and residential 10 storey residences to the south. The heritage listed Bath Arms Hotel is located 20 metres west of the South site.

The acoustic environment in all areas is described in the EIS as dominated by road traffic noise on the major transport corridors such as Parramatta Road and Burwood Road.

To assess and manage construction noise and vibration impacts, a detailed land use survey was prepared for the Project in line with CoA D34, with results of the survey provided in the Construction Noise and Vibration Management Plan (CNVMP) and relevant land uses to Burwood North are presented in Appendix A of this DNVIS.

3.2 Heritage items

There are several items of heritage value identified in the EIS, which include the following. These items will be considered for impacts of vibration-intensive activities.

- St Luke's Anglican Church
- Bath Arms Hotel
- Semi-detached houses along Burwood Rd

3.3 Noise catchment areas

To facilitate the assessment of noise impacts from the project and to apply representative Noise Management Levels (NMLs) to all receivers, receivers adjacent to the Burwood sites have been divided into Noise Catchment Areas (NCAs).

NCAs group individual sensitive receivers by representative traits such as existing noise environment and potential exposure to noise and vibration from the Project.

NCAs were established as part of the EIS, are summarised in Table 3-1 and illustrated in Figure 1-1. Background noise monitoring has been completed as part of the EIS to apply appropriate NML to each NCA (see Section 4.2).

Table 3-1 Summary of work areas, Noise Catchment Areas and land uses

NCA	Location	Description	Ambient noise influences
NCA12	Burwood, North of Parramatta Road	Mainly residential, with some commercial areas along Parramatta Road. 'Other sensitive' receivers include Concord High School, St Mary's Catholic Primary School, St Marys Catholic Church and St Luke's Anglican Church	Existing noise is controlled by road traffic. The area surrounding the construction site is mostly residential and the nearest receivers are near the northern boundary of the northern construction site and the southern boundary of the southern Construction Site. Commercial receivers are also adjacent to the site, along Parramatta Road, and are of general retail use
NCA13	Burwood, South of Parramatta Road	Mainly residential, with commercial areas along Parramatta Road and Burwood Road. 'Other sensitive' receivers include Sydney Central ENT, Bath Arms Hotel, Southern Cross Catholic College and Methodist Ladies College.	

3.4 Background noise survey

Background noise monitoring was undertaken as part of the wider Sydney Metro West Project EIS (Section 2, Technical Paper 2) through unattended background noise monitoring at representative locations. Monitoring was completed in March and July 2019 for each of the NCAs listed in Table 3-1.

The Burwood area is heavily influenced by traffic flows that generate lower noise levels during the night-time than the daytime and evening periods. This pattern of reduced noise levels in the evening and night time is characteristic of urban and suburban areas, where there is no industrial or infrastructure noise influences.

The baseline information was used to establish the Rating Background Level (RBL), which represents the average minimum background sound level for each measurement period, averaged over the measurement days. The RBL at each NCA is provided in Table 3-2.

Table 3-2 Background noise levels

NCA	Noise level (dBA) ¹		
	Day ²	Evening ²	Night ²
NCA12	43	43 (47) ³	42
NCA13	48	48	44

Notes:

1. The RBL values have been extracted from the EIS; refer to Table 4 in the EIS Technical Paper 2.
2. Daytime is 7:00am to 6:00pm, evening is 6:00pm to 10:00pm and night-time is 10:00pm to 7:00am.
3. During the EIS noise assessment, the monitoring level was found to be higher than the daytime. In this situation, the NPfl requires that the evening level be reduced to match the daytime

4. Noise and vibration assessment criteria

4.1 Overview

Project CoA D43 requires planned works to be assessed within this DNVIS where any planned works may exceed the NMLs, vibration criteria and/or ground-borne noise levels specified in CoA D39 and D40 at any residence outside construction hours identified in CoA D35, or where receivers will be highly noise affected.

This DNVIS includes specific mitigation measures identified through consultation with affected sensitive land user(s) and these mitigation measures will be implemented for the duration of the early works investigations.

This DNVIS has been provided to the AA and ER before the commencement of the planned works.

CoA D39 requires noise and vibration from construction activity to be managed with guidance from:

- Noise: the Interim Construction Noise Guideline (ICNG, DECC 2009)
- Vibration for human exposure: Assessing Vibration: A Technical Guideline (DEC, 2006)
- Vibration for building damage: BS 7385 Part 2-1993 – Evaluation and measurement for vibration in buildings Part 2, and
- Vibration for damage of unsound heritage items: DIN 4150-3 Structural Vibration – effects of vibration on structures.

The over-arching document for assessment and management of noise and vibration impacts on this Sydney Metro project is the Sydney Metro *Construction Noise and Vibration Standard* (CNVS, vers. 4.3, Transport for NSW 2020). The following sections outline the framework of these guidelines and the way this DNVIS will assist to assess and manage impacts.

4.2 Noise

4.2.1 ICNG

The CNVS refers to the *Interim Construction Noise Guideline* (ICNG) (DECC 2009), which provides guidance on management of construction noise. The ICNG notes noise that exceeds background noise levels may result in adverse impacts and an increased likelihood of complaints.

During approved hours, where construction noise is within 10 dB(A) of the RBL, impacts are considered acceptable. Where construction noise is more than 10 dB(A) above the RBL, a residential receiver is taken to be noise affected and the proponent should undertake all reasonable and feasible steps to manage the impact and consult with the affected community.

Above a $L_{Aeq, 15 \text{ minute}}$ noise level of 75 dB(A), a residential receiver is considered to be highly noise affected, requiring respite to be given in consultation with the regulatory authority and the community.

Outside approved construction hours, construction noise at a residential receiver more than 5 dB(A) above the RBL is taken to be noise affected.

In addition, noise from activities/equipment such as rock hammers, impact piling, or other impulsive noise sources usually result in greater annoyance than continuous construction noise. A 5 dB(A) penalty is applicable to such activities prior to comparison with the NMLs and a 3 hours on, 1 hour off respite schedule applies.

A noise level above $L_{Aeq, 15 \text{ min}}$ 70 dB(A) at a commercial property is considered to warrant noise mitigation. Similarly, an industrial facility would warrant noise mitigation at $L_{Aeq, 15 \text{ minute}}$ noise levels above 75 dB(A).

Table 4-1 presents management levels for noise at other relevant sensitive land uses based on the principle that the characteristic activities for each of these land uses should not be unduly disturbed.

Internal noise levels are assessed at the centre of the occupied room. Where internal noise levels cannot be measured, external noise levels may be used. A conservative estimate of the difference between internal and external noise levels is 10 dB for buildings other than residences.

Table 4-1 NMLs for non-residential sensitive receivers

Sensitive receiver type	NML applicable when in use, LAeq, 15 min
Classrooms at schools and other educational institutions	Internal noise level 45 dB(A)
Childcare centres - sleeping areas - play areas	Internal noise level 45 dB(A) External noise level 65 dB(A)
Hospital wards and operating theatres	Internal noise level 45 dB(A)
Places of worship	Internal noise level 45 dB(A)
Active recreation areas (characterised by sporting activities and activities which generate their own noise or focus for participants, making them less sensitive to external noise intrusion)	External noise level 65 dB(A)
Passive recreation areas (characterised by contemplative activities that generate little noise and where benefits are compromised by external noise intrusion, for example, reading, meditation)	External noise level 60 dB(A)
Community centres	Refer to the recommended 'maximum' internal levels in AS2107 for specific uses.

4.2.2 Sleep disturbance

The CNVS requires maximum noise levels to be analysed in terms of the extent and number of times the maximum noise exceeds specific noise trigger levels, in general accordance with the Noise Policy for Industry (Npfi) (EPA 2017). These triggers are:

- LAeq, 15 minute 40 dBA or the prevailing RBL plus 5 dB, whichever is greater, and the
- Lmax 52 dBA or the prevailing RBL plus 15 dB, whichever is greater.

The Npfi also recommends the DECCW (2011) Road Noise Policy (RNP) be reviewed for further risk assessment. The RNP recommends maximum internal noise levels below 50–55 dB(A) are unlikely to awaken people from sleep and one or two noise events per night, with maximum internal noise levels of 65–70 dB(A), are not likely to affect health and wellbeing significantly.

4.2.3 Ground-borne noise

CoA D40 requires all reasonable and feasible mitigation measures to be applied when the following residential ground-borne noise levels are exceeded. These levels are only applicable when ground-borne noise levels are higher than airborne noise levels at residential receivers during the evening and night periods.

- evening (6:00 pm to 10:00 pm) — internal LAeq(15 minute): 40 dB(A); and
- night (10:00 pm to 7:00 am) — internal LAeq(15 minute): 35 dB(A).

4.2.4 Construction traffic

While operating within the construction site, construction vehicles are assessed as part of the construction activity of which they are a part. However, once these vehicles leave the construction site and enter public roads, they are assessed as road traffic.

The Road Noise Policy (RNP) is generally adopted to assess the impact of construction traffic on public roads. A screening test is first applied to establish whether existing road traffic noise levels will increase by more than 2 dB due to construction traffic. Where any noise increase is less than 2 dB, the objectives of the Road Noise Policy have been met.

The CNVS recommends, where the road traffic noise levels are predicted to increase by more than 2 dB as a result of construction traffic, consideration should be given to feasible and reasonable noise mitigation measures to reduce the potential noise impacts and preserve acoustic amenity.

Actual noise levels associated with construction traffic will be monitored and compared to the following road traffic noise criteria in the RNP.

- 60 dB LAeq(15hour) day and 55 dB LAeq(9hour) night for existing freeway/ arterial/ sub-arterial roads.
- 55 dB LAeq(1hour) day and 50 dB LAeq(1hour) night for existing local roads.

Where exceedances of the RNP are attributed to construction traffic, consideration for mitigation would be made in accordance with the project CoA and the Revised Environmental Mitigation Measures (REMM).

4.2.5 Additional mitigation measures

The CNVS builds on the guidance provided by the ICNG and recommended further mitigation measures where all reasonable and feasible mitigation measures to minimise noise at the nearest receivers have been implemented and construction noise is still predicted to exceed the noise or vibration objectives. The Additional Mitigation Measures Matrix (AMMM) for airborne and ground-borne noise taken from the CNVS are presented in Table 4-2 and Table 4-3.

Table 4-2 Additional Mitigation Measures Matrix for airborne noise (CNVS)

Construction hours	dB above NML	Additional management measures
Approved hours Monday – Friday: 7am – 6pm Saturday: 8am to 6pm	0 to 10	-
	10 to 20	LB
	20 to 30	LB, M, SN
	>30	LB, M, SN
Evening Monday – Friday: 6pm – 10pm Saturday: 7am – 8am, 6pm – 10pm Sunday / PH: 8am – 6pm	0 to 10	LB
	10 to 20	LB, M
	20 to 30	LB, M, SN, RO
	> 30	LB, M, SN, IB, PC, RO
Night Monday – Saturday: 10am – 7am Saturday: 10pm – 8am) Sunday / PH: 6pm – 7am	0 to 10	LB
	10 to 20	LB, M, SN, RO
	20 to 30	LB, M, SN, IB, PC, RO, AA
	> 30	LB, M, SN, IB, PC, RO, AA

Notes: PC = Phone call/Email SN = Specific notification
M = monitoring LB = Letterbox drops
IB = Individual briefings DR = Duration reduction
AA = Alternative accommodation RO = Project specific respite offer

Table 4-3 Additional Mitigation Measures Matrix for ground-borne noise (CNVS)

Construction hours	dB above NML	Additional management measures
Approved hours Monday – Friday: 7am – 6pm Saturday: 8am to 6pm	No NML for ground-borne noise during standard hours (refer to Table 4-7)	
Evening Monday – Friday: 6pm – 10pm Saturday: 7am – 8am, 6pm – 10pm Sunday / PH: 8am – 6pm	0 to 10	LB
	10 to 20	LB, M, SN
	> 20	LB, M, SN, IB, PC, RO
Night Monday – Saturday: 10am – 7am Saturday: 10pm – 8am) Sunday / PH: 6pm – 7am	0 to 10	LB, M, SN
	10 to 20	LB, M, SN, IB, PC, RO, AA
	> 20	LB, M, SN, IB, PC, RO, AA

Notes: PC = Phone call/Email SN = Specific notification
 M = monitoring LB = Letterbox drops
 IB = Individual briefings DR = Duration reduction
 AA = Alternative accommodation RO = Project specific respite offer

4.3 Project-specific construction noise management levels

Based on the measured RBLs for each NCA and requirements of the ICNG and CNVS, project-specific NMLs are summarised in Table 4-4. NMLs for non-residential receivers are described in Table 4-1.

Table 4-4 Noise management levels

NCA	Noise Management Level, $L_{Aeq, 15 \text{ minute}}$							
	Approved hours		Outside approved hours				Sleep disturbance (CNVS)	
	Noise affected	Highly noise affected	Day	Evening	Night	$L_{Aeq, 15 \text{ minute}}$	L_{Amax}	
NCA12	53	75	48	48	47	47	57	
NCA13	58	75	53	53	49	49	59	

4.4 Vibration management

4.4.1 Human comfort

When assessing human exposure to construction-related vibration, the CNVS requires vibration goals to be established using *Environmental Noise Management Assessing Vibration: A Technical Guideline (AVATG)* (DECC 2006), which provides criteria for the assessment of vibration impacts on humans. Note, the CNVS adopts an 8-hour period for the night time human comfort criteria whereas the AVATG nominates a 9-hour period. To ensure consistency with the CNVS, 8 hours has been adopted for the project.

Construction activities typically generate vibration of an intermittent nature, which is assessed using a Vibration Dose Value (VDV). Acceptable values of vibration doses are presented in Table 4-5 for sensitive receivers.

Table 4-5 VDV Vibration criteria

Receiver type	Low probability of adverse comment (m/s ^{1.75})	Adverse comment possible (m/s ^{1.75})	Adverse comment probable (m/s ^{1.75})
Residential buildings – 16 hour day (7am to 11pm) ¹	0.2 to 0.4	0.4 to 0.8	0.8 to 1.6
Residential buildings – 8 hour night (11pm to 7am) ¹	0.13	0.26	0.51

Note 1: Day time and night time as described in BS6472:1992 (as referenced in the CNVS), i.e. a daytime period of 16 h or a night time period of 8 h, for example 23.00 h to 07.00 h.

4.4.2 Buildings

Potential building damage from construction vibration requires the application of values in BS 7385 Part 2-1993 *Evaluation and measurement for vibration in buildings Part 2*. These values are presented in Table 4-6 and relate to transient vibration which does not give rise to resonant responses in structures, and to low-rise buildings.

Table 4-6 Guideline values for vibration velocity for the effects of short-term vibration on structures (BS 7385).

Line	Type of building	Peak component particle velocity in frequency range of predominant pulse	
		4 Hz to 15 Hz	15 Hz and above
1	Reinforced or framed structures Industrial and heavy commercial buildings	50	
2	Unreinforced or light framed structures Residential or light commercial type buildings	15 at 4 Hz increasing to 20 mm/s at 15 Hz	20 mm/s at 15 Hz to 50 mm/s at 40 Hz and above

Where vibration may give rise to magnification due to resonance, especially at lower frequencies where lower guide values apply, the guide values may be reduced by 50%. The CNVS describes rock breaking/hammering and sheet piling activities as having potential to cause dynamic loading in some structures (e.g. residences).

For activity involving rock breakers, piling rigs, vibratory rollers, excavators, vibration predominantly occurs at frequencies in the 10 Hz to 100 Hz range. On this basis, a conservative vibration damage screening level is:

- Reinforced or framed structures: 25.0 mm/s
- Unreinforced or light framed structures: 7.5 mm/s

4.4.3 Heritage

Heritage buildings and structures would be assessed under a conservative cosmetic damage objectives of 2.5 mm/s peak component particle velocity (from DIN 4150). Where vibration levels at heritage items are identified as exceeding this screening level, structural assessment would be completed by the Project team to confirm the

structure’s sensitivity to vibration. If a heritage building or structure is found to be structurally unsound (following inspection) the conservative criterion would stand. Where the structure is suitably sound, the guideline values from Table 4-6 would be applicable.

4.4.4 Additional mitigation measures

The CNVS recommends additional mitigation measures where all standard mitigation measures to minimise vibration at the nearest receivers have been implemented and vibration is still predicted to exceed the maximum guideline values. The Additional Mitigation Measures Matrix (AMMM) for vibration from the CNVS is presented in Table 4-7. Acronyms are defined at Table 4-2.

Table 4-7 Additional Vibration Mitigation Measures (CNVS)

Construction hours	Mitigation measures where predicted vibration levels exceed maximum levels
Approved hours Monday – Friday: 7am – 6pm, Saturday: 8am to 6pm	LB, M, RO
Evening Monday – Friday: 6pm – 10pm; Saturday: 7am – 8am, 6pm – 10pm; Sunday / PH: 8am – 6pm	LB, M, IB, PC, RO, SN
Night Monday – Saturday: 10am – 7am Saturday: 10pm – 8am); Sunday / PH: 6pm – 7am	LB, M, IB, PC, RO, SN, AA

Notes: PC = Phone call/Email
 M = monitoring
 IB = Individual briefings
 AA = Alternative accommodation

SN = Specific notification
 LB = Letterbox drops
 DR = Duration reduction
 RO = Project specific respite offer

5. Impact assessment

5.1 Plant and equipment

A summary of proposed activities at the Burwood sites was provided in Table 2-1. Nominal equipment and estimated sound power levels of each item and activity are presented in Appendix B. All activities are proposed during approved hours only until the acoustic shed is completed.

During site establishment, it is likely several activities would be undertaken concurrently so cumulative impacts have been assessed as part of this DNVIS. Similarly, concurrent excavation of the main station box and southern shaft has been considered (see Section 6).

Sound power levels (SWLs) and predicted noise levels depend on the number of plant items operating at any one time and their precise location relative to a sensitive receiver. The SWLs include item quantities and nominal usage factors (proportion of a 15-minute assessment period the equipment would be operating at its maximum noise output).

5.2 Noise modelling

SoundPlan noise modelling software was used to calculate noise impacts in accordance with the ISO9613 prediction method at all identified noise-sensitive receivers. The model included:

- Topography – 1 metre DEM based on LPI Lidar data.
- Individual buildings for façade calculations and to account for shielding and reflections. Building heights are also taken from Lidar data.
- Individual sensitive receivers – One receiver location representing each residential dwelling and located 1.5 metres above most affected floor level (e.g. level 2) and most-affected façade at up to around 600 metres radius.
- Construction noise sources – Activities and equipment included in the noise model as area sources in locations specified by AFJV. SoundPlan takes the worst-case point within each area to perform its calculations, a conservative approach. Sound power levels in Appendix B. Source is modelled at 1.5 metres above ground.
- Meteorology – worst-case conditions: gentle breeze (3-5 m/s) source to receiver and stable conditions (conducive of temperature inversion).

5.3 Mitigation measures included in the modelling

Mitigation measures are to be implemented to ameliorate noise impacts as standard practice throughout the duration of the works. Mitigation measures, which may affect the predicted levels include the following, which have been incorporated in the assessment as base assumptions for noise predictions.

- Source noise control strategies:
 - Where the NML outside approved hours cannot be achieved, work is not proposed to be undertaken unless unavoidable and completed under the procedures contained in the CNVMP.
 - Equipment sound power levels will not exceed those described in Table 13 of the CNVS.
 - Residential grade mufflers fitted to all mobile plant, with equipment maintained and operated effectively.
 - ‘Damped’ rock hammers with reductions of around 10 dB in comparison to similar sized un-damped hammers
 - No shouting or swearing or playing of loud radios

- Engine and exhaust brakes avoided
- Site layout planned to allow noisy stationary plant to be placed behind larger objects or as far from receivers as possible
- Engines switched off when not in use for extended periods (15 minutes) and no idling trucks in front of residences
- Dropping of heavy objects or metal-on-metal impacts avoided
- Non-tonal reverse alarms installed on all mobile equipment regularly used on the project and all equipment outside approved hours.

The above measures were included in the assessment and are reiterated in Section 7.

Planning approval Consistency Assessment SMWCA10, under EP&A Act 1979, Division 5.2, was approved in August 2023 for Sydney Olympic Park and Burwood North noise mitigation. The consistency assessment proposed to alter the noise mitigation strategy to respond to change in construction methodology for station box excavation. Acoustic panels at Burwood North northern construction site are no longer proposed due to excavation of the station box in the area outside the acoustic shed occurring during approved construction hours only. Site specific noise mitigation measures nominated in the consistency assessment included:

- the existing acoustic shed (approximately 20 metres in height) would remain over the western portion of the station box where 24/7 tunnelling and spoil management is required
- elimination of general out of hours work for excavation of the eastern side of the station box and associated spoil management
- elimination of general out of hours work for the excavation and associated spoil management of the southern shaft, and tunnelling of the pedestrian adit
- various forms of hoarding are proposed, with a mix of 2.4 metre high hoarding and retention of existing building facades at the site boundary (noting vehicle access points would be required for site entry and egress)
- rock hammers will be used where required when breaking up building slabs, with alternative methods proposed in “no hammer” zones. If using hammers is unavoidable, noise mats or suitable noise screens around the activity would be investigated where practicable.
- avoidance of high noise impact works when reasonably practicable, with respite provided as per condition of approval D36
- community notifications and engagement including community information sessions and individual meetings with owners/tenants of neighbouring properties
- verification of the noise model by undertaking noise monitoring. If noise monitoring is higher than predicted then the works will be reviewed and additional feasible and reasonable measures will be implemented.

To provide safe access around the boundary, an interim hoarding configuration will be used after the demolition phase, during the construction of the acoustic shed. Following shed construction, the final hoarding design will be implemented. The planned hoarding arrangement pre and post shed construction is presented in Figure 5-1 and Figure 5-2.

- Acoustic shed:

- The 20 metre tall acoustic shed over the main shaft excavation has been modelled with a weighted noise reduction, R_w of 35 with transmission loss equivalent or better than values in Table 5-1. Modelling assumes roller doors are closed during the evening and night on the Burton Street façade as egress for heavy vehicles is limited to daytime and evening only.

Table 5-1: Acoustic shed transmission loss at frequencies (Hz)

63	125	250	500	1000	2000	4000
19.7	18.8	24.7	31.1	39.5	45.8	52.5

Intake and exhaust noise from the Acoustic shed has been accounted for in the model based on the preliminary shed design with the vent openings in the roof. Intake and exhaust fans have silenced, ducted inlets and exhausts on the roof.

Ventilation fans supplying fresh air to the TBM tunnels will be installed in the Burwood North acoustic shed with flexible ducting running through the Burwood North cavern to supply air to the tunnel face.

Figure 5-3 presents an aerial photograph of the location and scale of the main acoustic shed.

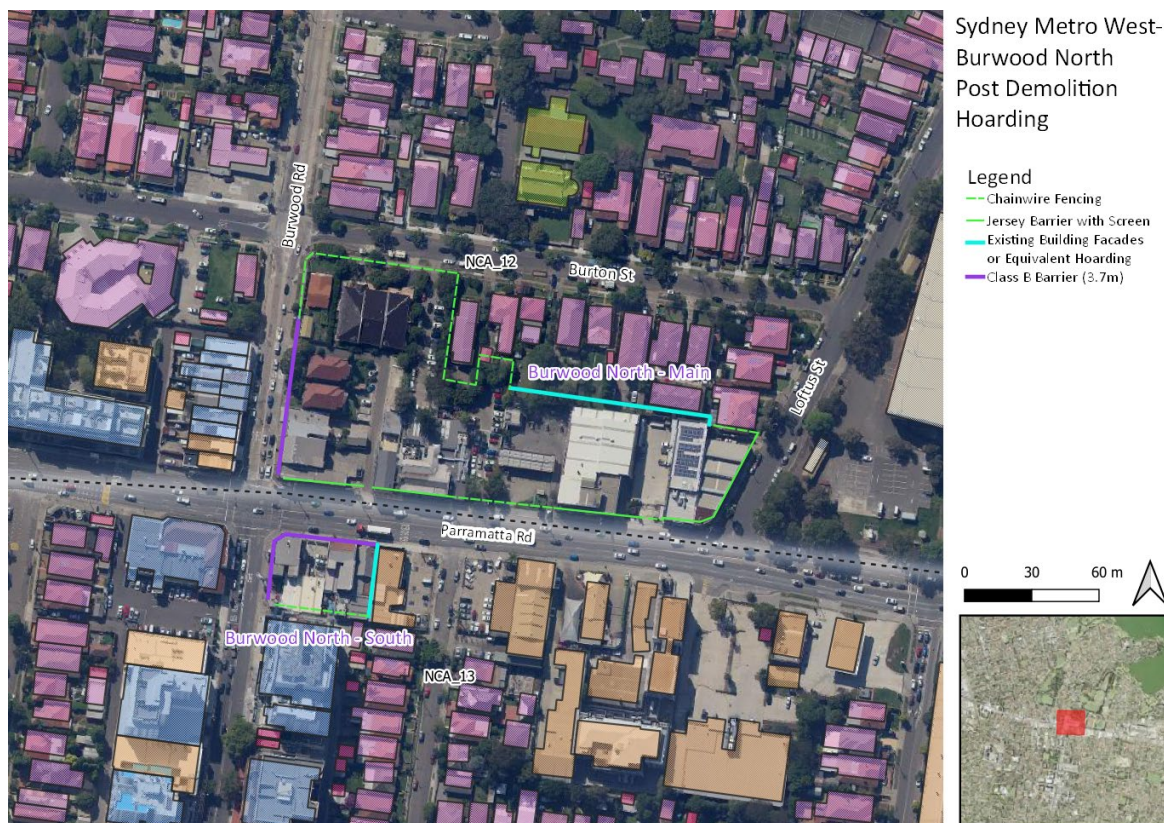


Figure 5-1 Hoarding layout – Post demolition, pre acoustic shed

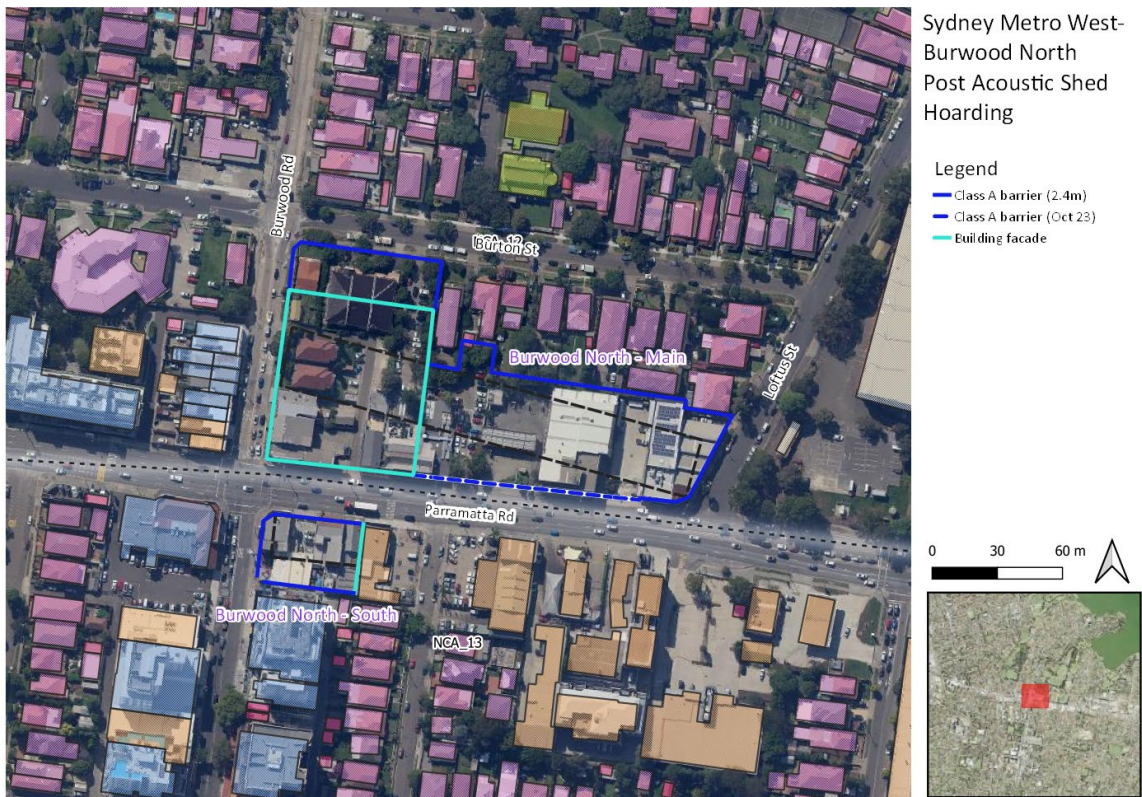


Figure 5-2 Hoarding layout – Final layout



Figure 5-3 Burwood Acoustic shed and open station box excavation (looking west along Parramatta Road)

6. Predicted noise levels

6.1.1 Overview

A summary of predicted noise levels for works during approved hours is provided in the following sections for each construction phase. For site establishment and initial shaft construction, there would be no OOHW undertaken. Detailed results for all sensitive receivers are provided in Appendix D.

Noise contours for selected activities are presented in Appendix C showing the extent of the impacts with the greatest impacts predicted at receivers immediately adjacent to the works. Contours illustrate that existing buildings around the work sites generally provide good noise screening to houses situated further back from the construction sites.

6.1.2 Site establishment works (Phases 1 & 5)

Site establishment works have been completed. See earlier revisions of this document for detail of completed activities.

6.1.3 Construction within shed (Phases 2 - 4 & 6 – 8)

Site establishment works have been completed. See earlier revisions of this document for detail of completed activities.

6.1.4 TBM tunnelling and support phase

During the TBM traverse, noise impacts are expected to exceed the NML criteria for all periods with around 7 exceedances in the 0-10 dB(A) range predicted during the night. The predicted exceedances are based on the noisiest activities using torque wrenches to tighten bolts on TBM rails. Mitigation measures such as using handheld torque wrenches rather than rattle guns during out of hours periods would be implemented to minimise impacts.

During the TBM traverse, any TBM maintenance will be conducted within the footprint of the acoustic shed on the western side of the station box, where possible. This will provide a good level of acoustic shielding to the surrounding receivers. Noise emissions will propagate from beneath the acoustic shed through the station box and from within the acoustic shed. Noise impacts associated with the maintenance of a single TBM (with the acoustic shed doors closed) are expected to exceed the evening and night criteria in the 0-10 dB(A) range at 1 receiver.

During the TBM relaunch, the TBM will be wholly within the cavern and the footprint of the acoustic shed. Noise impacts associated with the relaunch of a single TBM (with the acoustic shed doors closed) are expected to exceed the evening and night criteria in the 0-10dB(A) range at 1 receiver.

At Burwood, ongoing tunnelling support will be a requirement for spoil removal and segment deliveries for the tunnelling lining and concrete deliveries for cross passage construction. At Burwood, tunnel support will include a conveyor system for each of the TBMs, as well as conveyor boosters to maintain tension in the conveyor belts, which will deliver spoil to The Bays site. A grout batching plant will also be set up within the acoustic shed at the Western end of the Burwood site. This plant mixes the grout which the TBM injects behind the rings to ensure they are fully supported. The grout plant is supported by up to five heavy vehicle deliveries a day, delivering cement, fly ash, bentonite and other chemicals.

Grout plant construction and operation; and segment deliveries and handling at Burwood North were approved under EP&A Act 1979, Division 5.2, as Consistency Assessment CA18 (SWSTCTP-AFJ-BWT-EN-RPT-000012) in



January 2024. Noise modelling in the Consistency Assessment is consistent with model for the relevant activities in this DNVIS.

The conveyor booster stations will comprise of electric motor and drive units, which will be the noisiest components for the conveyor system but are able to meet operational NML for the Burwood North station box due to their location and depth of the cutting.

Noise impacts associated with the tunnelling support conveyor system and grout plant operation have been calculated with the acoustic shed doors closed. Predicted levels would exceed the evening and night criteria in the 0-10dB(A) range at 1 receiver. The predicted noise level at this receiver is 2dB above the night NML. Proposed acoustic shielding to be applied to the grout plant will aim to reduce these noise impacts below NML for all periods. During tunnelling support the acoustic shed doors would be open during approved standard hours and when construction vehicles enter or exit.

Operation of the WTP will be required during OOHW periods. The WTP is currently not operational during the evening and night and will need to have noisy sources such as the WTP air compressor shielded or fitted with an appropriate muffler for the blow off valve, to meet the night time NML. Currently up to 6 receiver locations would be impacted in the 0-10 dB range where tunnelling support combined with current WTP operations are undertaken during the night.

Where noise impacts from the WTP can be mitigated by using noise barriers and varying the operational times of some equipment to standard hours only operation, noise impacts can be reduced to below NML for all receiver locations adjacent to the WTP. Figures showing tunnelling support activities with the current unmitigated WTP operation as well as the support activities including the estimated noise reductions from the mitigated WTP, are presented in Appendix C.

As per condition D39 any work identified as exceeding the noise management levels and / or vibration criteria will be managed through application of reasonable and feasible mitigation measures and in accordance with the Noise and Vibration CEMP Sub-plan. Additional mitigation measures from Sydney Metro's CNVS will be applied where NML's aren't achieved (refer to section 4.2.5 and 4.4.4).

A summary of noise level impacts for this phase of works is presented in Table 6-3.



Table 6-1 Summary of predicted NML exceedances for TBM tunnelling activities

Activity		Maximum level, dBA			Predicted no. receivers with exceedance of NML															
					Approved hours			Outside approved hours - Day				Outside approved hours - Evening				Outside approved hours - night				
		Res	Non-res	Rec. >75	0-10	10-20	20+	0-10	10-20	20-30	30+	0-10	10-20	20-30	30+	0-10	10-20	20-30	30+	
9a	Single TBM Traverse	57	51	-	2	-	-	6	-	-	-	6	-	-	-	7	-	-	-	
	Both TBMs Traverse (EB+WB)	59	56	-	6	-	-	16	1	-	-	16	1	-	-	15	2	-	-	
9b	TBM Maintenance	53	43	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	
9c	TBM Relaunch	50	38	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	
9d	Tunnel support activities (WTP Unmitigated)	54	44	0	1	0	0	5	0	0	0	5	0	0	0	6	0	0	0	
9di	Tunnel support activities (WTP Mitigated)	50	41	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	
9e	Cross Passage ramps	57	51	-	2	-	-	6	-	-	-	6	-	-	-	7	-	-	-	
10a	Dismantling gantry crane	65	61	-	23	3	0	-	-	-	-	-	-	-	-	-	-	-	-	
10b	Upstand Demolition	78	73	9	161	32	10	-	-	-	-	-	-	-	-	-	-	-	-	
10c	Bridge Demolition	66	61	-	21	8	0	-	-	-	-	-	-	-	-	-	-	-	-	
10d	Shed/Offices dismantling	69	64	-	39	10	0	-	-	-	-	-	-	-	-	-	-	-	-	

6.1.5 Cumulative impacts

Works in the Main and South sites may occur concurrently. Considering the placement of sensitive receivers relative to each site, cumulative impacts would be minimal, with the nearest site to each residence being the dominant influence on construction noise levels.

When multiple activities are underway on the Main or South sites, predicted levels at any receiver would be influenced primarily by the closest activity. As a worst case, if two similarly noisy activities were underway equidistant from a single receiver, the noise level would increase by 3 dB.

6.1.6 Sleep disturbance

For activities outside approved hours any work wholly within the cavern or within the footprint of the main station box would aim to be NML compliant using reasonable and feasible mitigation measures. Some activities during this time may generate noise levels above the L_{Amax} screening level. The activities having a higher risk of sleep disturbance will be identified and mitigated during night shift pre-starts and where appropriate alternative methods for these works will be investigated/implemented.

Activities external to the site undertaken outside of approved hours is covered separately under the project OOHW protocol.

At the southern shaft site, there are no planned excavation works outside approved hours and therefore sleep disturbance impacts are not applicable.

Other out of hours work not associated with site activities may be undertaken where they comply with CoA D37 and EPL 21610 and these works would be assessed through the out of hours works process.

6.2 Ground-borne noise

Ground-borne noise impacts are associated with tunnelling or other subterranean works, which have the potential to generate vibration in the ground which translates into noise as it radiates to internal living spaces. These impacts are considered where noise within a building envelope caused by ground transmission is greater than airborne noise from the construction project.

During the establishment and construction phases of this project, the Burwood North site was assessed for potential vibration generating impacts. With the completion of the construction phase and commencement of the tunnelling phase, ground-borne noise impacts associated with the TBM activities are further assessed within the tunnelling DNVIS.

6.3 Construction traffic

The Burwood north main station box site is bounded by 2 arterial roads, Parramatta Road and Burwood Road, and two local roads, Burton Street and Loftus Street. The southern site is bounded by Parramatta Road and Burwood Road and a laneway access from Esher Lane at the rear of the site.

Figure 6-7 presents the traffic access points for the main and southern sites. Bulk spoil removal from the site has been completed. Deliveries and removal of materials and equipment will continue as necessary to support the tunnelling works until project completion.



Condition D37, limits truck movements from the Burwood site to daytime traffic hours from 7am to 10pm for local roads, which includes the Burton Street exit, while outside approved hours truck movements must access and exit site via Parramatta Road.

During tunnelling operations, up to 70 segment delivery vehicles per day would access the Burwood site via Parramatta Road end exit the site on Burton Street. This number of deliveries is consistent with current vehicle numbers and all movements using Burton Street would be limited to the hours of 7am to 10 pm in accordance with D37. Any traffic noise impacts would be managed in accordance with the NVMP.

In addition to spoil and delivery movements, a street sweeper is also being used as a mitigation measure for tracking and dust management onsite, at access points and along the haul routes around the Burwood Main and southern sites.

Onsite mitigation measures such as working on hardstand areas and use of a wheel wash where reasonable and feasible will be implemented to reduce frequency of street sweeper use. The street sweeper will be fitted with a non-tonal reverse alarm. If required the street sweeper will be in regular use during standard construction hours. On local roads infrequent use of the street sweeper between 6pm and 10pm during hauling may be required but will be minimised where possible. On Parramatta Road, the street sweep will operate as required.

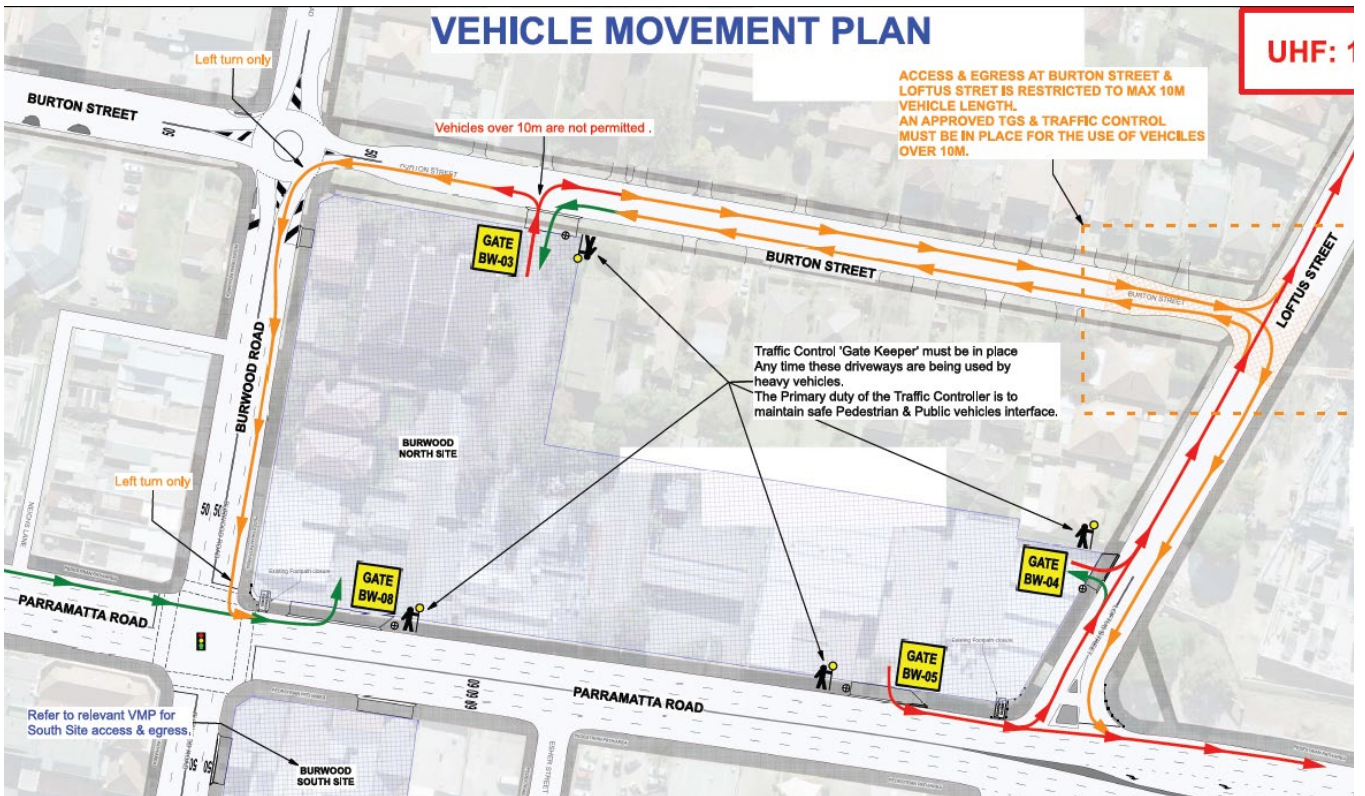


Figure 6-1a Burwood North construction traffic movements – Main site

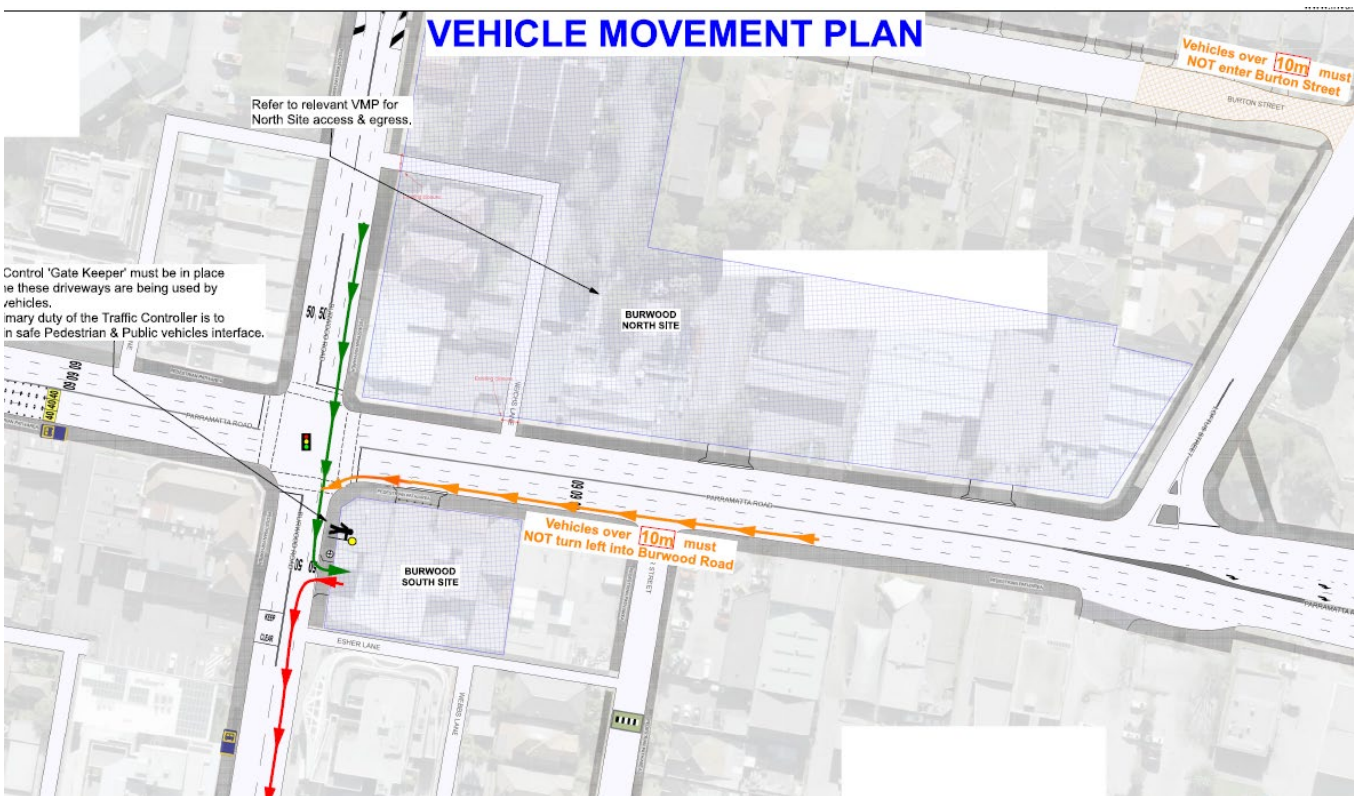


Figure 6-2 Burwood North construction traffic movements – South site

7. Summary and recommendations

7.1.1 Impact summary

Predicted noise levels for the TBM phase of work indicate some activities will result in adverse impacts on the local community, with residents directly adjacent to the works to experience the greatest level of impact.

Where out of hours work are required outside the scope of this DNVIS such as out of hours utility relocations and oversized plant deliveries and this will be assessed through the out of hours work process. These activities may cause impacts above NML and sleep disturbance levels and mitigation measures such as offering alternative accommodation will be implemented as required.

Hoarding was included as a safety and noise mitigation measure for all works based on the review of mitigation requirements from Sydney Metro West. Some of these areas have existing barriers at the boundary or an equivalent noise wall/hoarding. Predicted noise levels at receiver locations reflect this level of mitigation.

Predicted noise levels during the TBM tunnelling phase of works are predicted to have noise impacts above NML on the surrounding receivers during a single TBM traverse, maintenance and re-launch event. Where both TBMs arrive at Burwood at the same time, these impacts increase to a moderate level, but are expected to last for only a short time and any noise impacts during this period will be monitored and managed in accordance with the NVMP.

Tunnelling support impacts indicate only a single exceedance from the operation of all associated activities and facilities. Impacts for the nearest residence in Burton Street are expected to be from the operation of the grout plant; and residences on Burton Street and Loftus Street during water treatment plant operation where noisy equipment is not sufficiently attenuated. A verification impact assessment will be completed during the commissioning stage of the grout plant and operation of the water treatment plant and reasonable and feasible mitigation measures will be implemented where noise levels are predicted to exceed the NML at affected residences.

The WTP will potentially be run during OOHW periods but will require attenuation measures to be applied before 24 hour operations are possible.

7.1.2 Standard mitigation

Standard noise mitigation measures described in Table 7-1 should be implemented at all phases of the project in addition to those described in the project Construction Noise and Vibration Management Plan (CNVMP).

In line with CoA D42 best practice construction methods will be implemented where reasonable and feasible to ensure noise is maintained at a practical minimum. Practices will include:

- use of regularly serviced low sound power equipment;
- temporary noise barriers (including the arrangement of plant and equipment) around noisy equipment and activities; and
- use of alternative construction techniques to minimise noise and vibration will be adopted including:
 - Minimising use of rock hammers during demolition phase of the work by using shear and jaw attachments for excavators
 - Avoid hammering foundations during demolition where practicable by saw cutting and lifting slabs with the excavator bucket

- Completing pile cap breaking using non percussive equipment such as pile croppers

The acoustic shed will be designed and constructed with the aim of meeting the NMLs for evening and night periods for the activities proposed during these times. Shed walls will be erected as early as possible, with walls protecting the nearest residential receivers to be scheduled as a priority.

Where external noise sources are identified outside of this DNVIS, use of noise mats and timber hoarding will provide both an acoustic benefit and a visual indicator to the public that all reasonable and feasible measures are being undertaken.

Equipment should be selected with consideration of noise emissions and the quietest equipment that can do the job should be chosen.

As required by CoA D37(a), any emergency works predicted to exceed the NML would be undertaken in accordance with Section 6.6 of the out-of-hours works protocol (SMWSTCTP-AFJ-1NL-PE-PLN-000005 Revision 02).

Consultation will be critical in ensuring the community’s expectations are managed, with impacts and durations clearly conveyed, resident’s concerns heard, appropriate respite and other mitigation is offered and/or implemented and works outside of hours are not unexpected.

Table 6-7 Properties Standard mitigation measures

Measure	Description
Administrative	
Construction hours	<ul style="list-style-type: none"> As much work as possible will be programmed during approved hours. Where work outside approved hours is proposed, this will be completed in line with the CNVMP and Out of hours works protocol.
	<ul style="list-style-type: none"> When working outside schools, medical facilities and child care centres, excessively noisy activities will be completed outside normal working hours where practicable.
	<ul style="list-style-type: none"> When working outside churches, particularly noisy activities will be undertaken outside scheduled service times where reasonable and feasible.
	<ul style="list-style-type: none"> In accordance with CoA D36 noisy activities as defined in the ICNG, such as concrete cutting, will be undertaken on a, 3 hours on, 1 hour off, basis unless otherwise approved.
Community consultation	<ul style="list-style-type: none"> In line with the CNVMP, nearby receivers should be notified of the upcoming works, including the duration and predicted level of impact.
	<ul style="list-style-type: none"> In line with the CNVS, community consultation will be undertaken regarding the DNVIS and proposed mitigation such as respite offers
Site induction	<ul style="list-style-type: none"> Site Environmental Induction should be delivered to the team and should include consideration and awareness of noise impacts.
Cumulative impacts	<ul style="list-style-type: none"> Programming for works undertaken outside approved hours will also consider works being undertaken by third parties
Behaviour	<ul style="list-style-type: none"> Avoid yelling and swearing near sensitive receivers.
	<ul style="list-style-type: none"> Trucks shall enter and exit the sites via Parramatta and Burwood Roads during establishment.
Noise control	
Equipment selection	<ul style="list-style-type: none"> Priority will be given to the use of quieter and less vibration emitting construction methods and plant alternatives where feasible and reasonable.
	<ul style="list-style-type: none"> All equipment shall be well maintained, including mufflers and any noise suppression

Measure	Description
	<ul style="list-style-type: none"> Use shears to break up building slabs where possible. If unavoidable, use of hammers would be of short duration, during standard hours, follow 3 hours on 1 hour off and be surrounded by noise mats. All equipment will meet the maximum sound power requirements of Table 13 of the CNVS. Trucks approaching construction sites will avoid the use of compression braking, especially in the night period Traffic management signage vehicles shall be padded to reduce rattling as much as possible.
Noise barriers	<ul style="list-style-type: none"> Use temporary noise screens and enclosures as much as possible to reduce noise emissions from equipment when stationary or operating in one location for a reasonable duration. Screens (such as Echobarrier) should be placed between source and receivers, be continuous (without gaps) and installed according to manufacturer directions. During demolition, existing buildings will be removed with consideration of retaining noise barriers for as long as possible. Work should generally progress in an anticlockwise direction starting at Burton Road then moving south to Parramatta Road towards Loftus Street with the general aim of providing maximum duration of shielding from the existing buildings and infrastructure. Erection of hoarding will be considered along boundaries with noise affected residents.
Use and siting of plant	<ul style="list-style-type: none"> Plant used intermittently to be throttled down or shut down. Switch engines off when not in use for a short time (e.g. 15 minutes) Noise-emitting plant to be directed away from sensitive receivers where possible. Stationary plant should be located behind a structure or enclosed if practicable. Avoid compression breaking on approach to the site.
Non-tonal reversing alarms.	<ul style="list-style-type: none"> Non-tonal reversing beepers (or equivalent) must be fitted and used on all construction vehicles and mobile plant regularly used on site and for any out of hours work.
Monitoring	
Noise monitoring	<ul style="list-style-type: none"> Noise monitoring shall be completed to: <ul style="list-style-type: none"> verify assumptions of this DNVIS regarding estimated equipment noise emissions, ensure noise levels below NMLs, as required by the AMM for each assessed activity and as required by the NVMP and associated monitoring program.
Vibration monitoring	<ul style="list-style-type: none"> Attended vibration measurements would be undertaken at the commencement of vibration generating activities within safe working distances shown in Appendix B. Where there is potential for exceedances of criteria vibration, site law investigations would be undertaken to determine site-specific safe working.

7.1.3 Additional mitigation measures

Additional noise mitigation measures described in the CNVS AMMM should also be implemented as indicated in Appendix A for each receiver. AMM for each receiver is indicated by colour-coding as per the AMMM in Table 4-2.

For vibration, AMM should be applied for sensitive receivers where measurement indicates it is applicable. In this case, measurement means either at a single location, which also indicates the likely level (and relevant AMM) at other similarly exposed locations or as established by site law measurements to indicate which receivers would be within the site-specific safe working distances.

7.1.4 Monitoring

Several assumptions have been made in this assessment to provide representative predictions, such as work location, equipment types, numbers, intensity of operation and noise screening options and these will be verified once works commence and regularly throughout the program.

Noise and vibration monitoring will be undertaken in line with the Noise and Vibration Monitoring Program and out-of-hours protocol as appropriate, with the following monitoring to be completed as a minimum.

Noise

- Monitoring will be completed at representative locations and nearby sensitive receivers to verify predictions throughout the final phases of construction.

Vibration

- No vibration generating works are expected from the main station box at Burwood North for the final phase of works.

Continuous monitoring

- To meet the requirements of CoA D63, fixed monitoring locations have been identified for this site and are detailed in the CNVMP. Long-term noise and vibration monitoring data at these locations will be readily available as required in the CNVMP and Monitoring Program.

7.1.5 Consultation

Condition of Approval D43 requires mitigation measures presented in this DNVIS to be identified through consultation with the affected community. This applies to standard hours and works outside standard hours. All mitigation measures developed as part of this DNVIS have been formed around community needs and concerns established through the community consultation process, as required by CoA D43. This process will continue for further phases of work.

In reviewing sensitive land uses near the Burwood North sites, specific receivers requiring consultation has included nearby receivers on Burton Street, Loftus Street, Esher Lane, Parramatta Road and Burwood Road, as well as businesses, schools and places of worship, which may be sensitive to noise.

Ongoing consultation has determined that there are no specific noise sensitive periods identified by receivers in the area surrounding the Burwood site. Consultation included sensitive receivers such as the St Luke's Church, a local primary school and Concord Oval management.

In anticipation of the upcoming works, AFJV's Place Manager has distributed a newsletter for the Burwood North main site outlining the imminent TBM arrival and support works to follow. They have been conducting face-to-face consultation in conjunction with other notification methods. A community open day is planned following the TBM breakthrough.

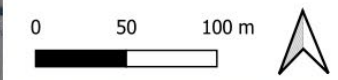


Appendix A. Land use survey and NCA maps



Sydney Metro West
Central Tunneling Package
Land Use Survey

- Project Footprint
- Receiver Type
- Childcare
- Commercial/Business
- Commercial/Residential
- Community Use
- Community/Residential
- Education
- Hotel
- Industrial/Utilities
- Recreational/Open Space
- Residential
- Medical
- Place of Worship
- Recreational Passive
- None





Appendix B. Proposed equipment and sound power levels

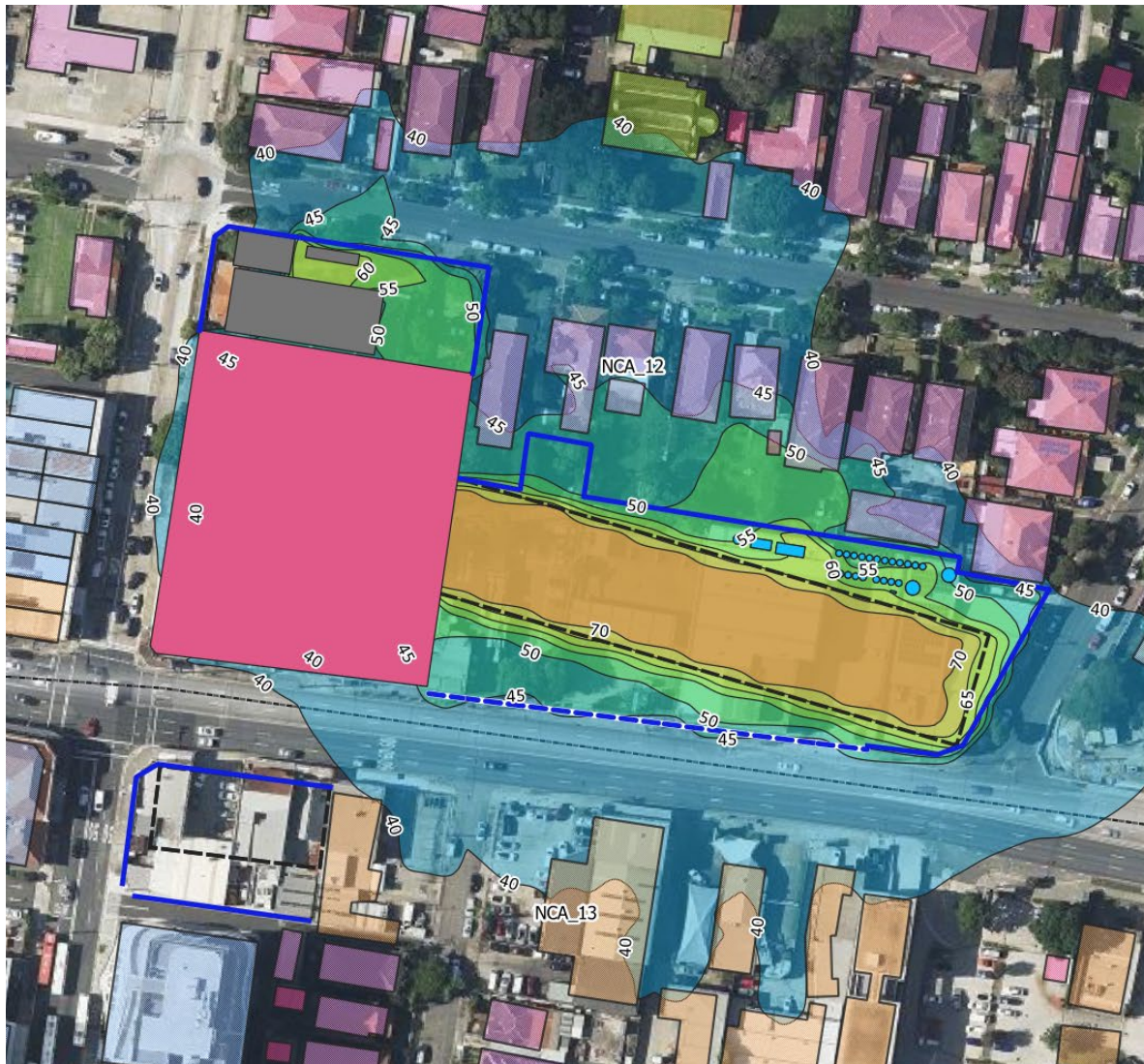
B.1 TBM Tunnelling and tunnel support

Phase	Activity/ Work Area	Aspect	Plant/Equipment	Day	Evening	Night	SWL, dBA	Usage	Temp. barrier reduction, dB	Penalty, dB	SWL	Adjusted SWL, LAeq,15 minute			Activity LAeq, 15 min SWL				
				7am - 6pm	6pm - 10pm	10pm - 7am					Lmax	Day	Eve	Night	Day	Eve	Night		
9	Tunnelling support	9a	Forklift	1	1	1	100	0.4		0	105	96	96	96	106	106	106		
			Hand tools	1	1	1	94	0.4		0	99	90	90	90					
			Hand held rattle gun	2	1	1	105	0.5		0	110	105	102	102					
		9b	TBM Maintenance	TBM Arrival and departure	Excavator w bucket	2	2	2	107	0.6		0	112	108	108	108	111	111	111
					Franna Crane	1	1	1	98	0.6		0	103	96	96	96			
					Small Truck / 15 min	1	1	1	93	0.3		0	98	88	88	88			
		9c	TBM Relaunch		TBM (Gantries only)	1	1	1	102	1		0	105	102	102	102	102	102	
		9d	Tunnelling support	Support operations	Boosters	2	2	2	102	1		0	104	105	105	105	106	106	106
					Conveyors (per m)	80	80	80	72	1		0	83	91	91	91			
					MSV Segment deliveries	2	2	2	105	0.1		0	108	95	95	95			
					Power conditioner	1	1	1	90	1		0	85	85	85	85			
		9e	Cross passage ramps	Temporary works	Same as traverse	1	1	1	106	1		0	110	106	106	106	106	106	
		9f	Treatment Plant	Surface support	Water treatment plant	1	1	1	95	1		0	104	95	95	95	95	95	
5	Demobilisation	10a	Demolition gantry crane	250 ton Crane	2			105	0.4		0	110	104	0	0	108	0	0	
				EWP	1			89	0.3		0	94	84	0	0				
				Flat bed truck	3			93	0.3		0	98	93	0	0				
				Hiab	1			101	0.3		0	106	96	0	0				
				Hand tools EG Rattle gun	4			105	0.2		0	110	104	0	0				
		10b	Demolition concrete upstands	24t tracked excavator + hammer	1			120	0.3		5	128	120	0	0	120	0	0	
				Bogie trucks	1			108	0.2		0	113	101	0	0				
				Compressor	4			94	0.5		0	99	97	0	0				
				Jackhammer	1			111	0.2		5	119	109	0	0				
		10c	Demolition Bridge	Watercart	1			103	0.4		0	108	99	0	0	108	0	0	
				250 ton Crane	3			105	0.4		0	110	106	0	0				
				Flat-bed truck	3			93	0.3		0	98	93	0	0				
				Watercart	2			103	0.4		0	108	102	0	0				
				EWP	2			89	0.3		0	94	87	0	0				
		10d	Demolition acoustic shed/Office	Hand tools EG Rattle gun	1			105	0.2		0	110	98	0	0	111	0	0	
				150 Ton crane	1			99	0.4		0	104	95	0	0				
				EWP	4			89	0.3		0	94	90	0	0				
Hand tools EG Rattle gun	4					105	0.2		0	110	104	0	0						
Flat bed truck	4					93	0.3		0	98	94	0	0						
			47Ton long reach Demolition grab	2			112	0.3		0	117	110	0	0					



Appendix C. Construction noise contours

C.1 Construction noise contours



Tunelling Support Burwood
Noise Contours - All Hours
WTP Unmitigated
Shed doors closed

- Acoustic Shed
- Offices and Power
- WTP
- Station Box Area
- Hoarding 2.4m

Receiver types

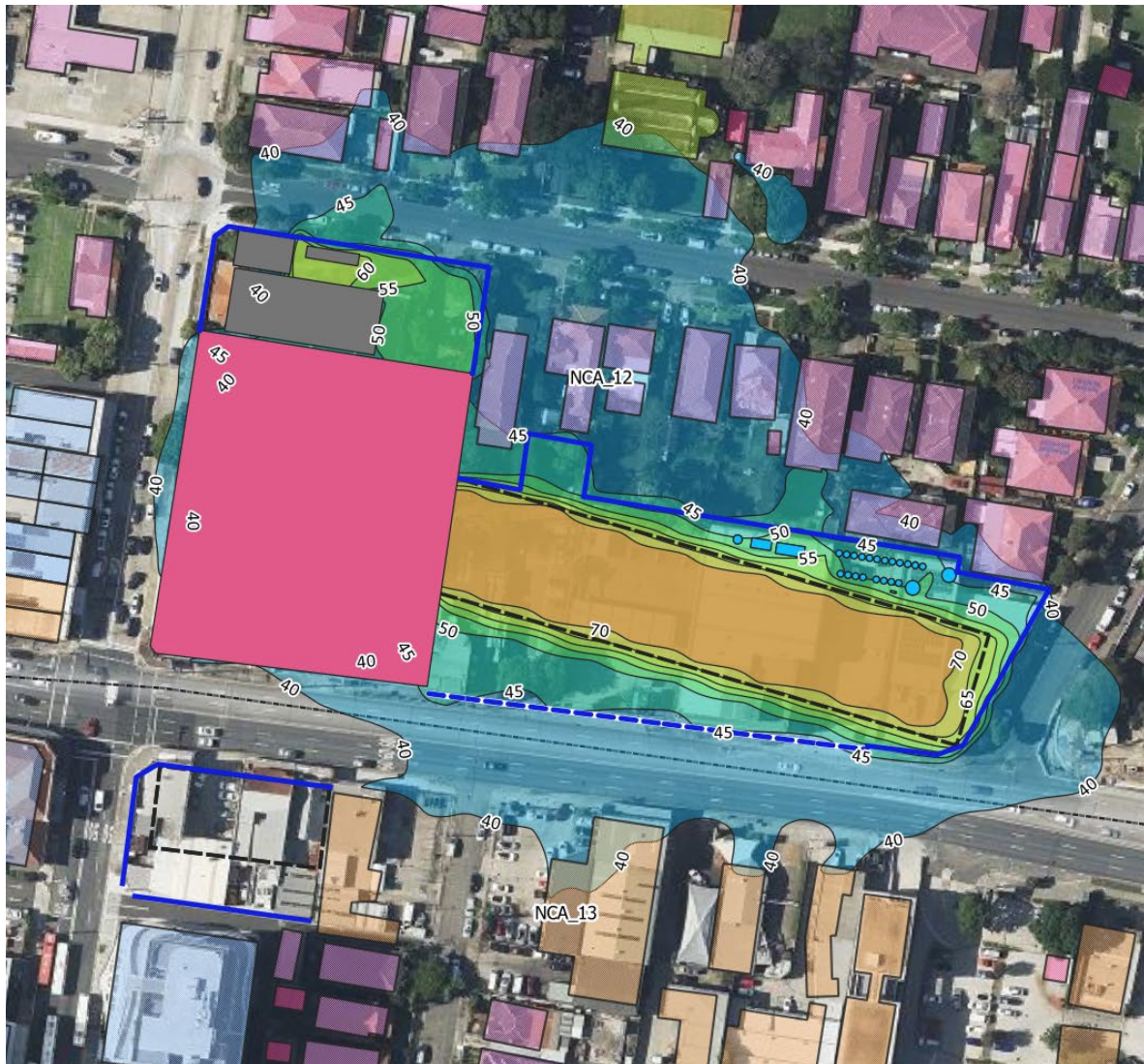
- Commercial/Business
- Commercial/Residential
- Residential
- Place of Worship

Predicted Noise Contours, dBA

- 40
- 45
- 50
- 55
- 60
- 65
- 70

NCA	NML Day	NML Eve	NML Night
NCA_12	53	48	47
NCA_13	58	53	49





Tunelling Support Burwood
Noise Contours - All Hours
WTP Mitigated
Shed doors closed

- Acoustic Shed
- Offices and Power
- WTP
- Station Box Area
- Hoarding 2.4m

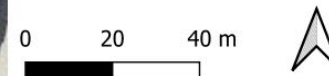
Receiver types

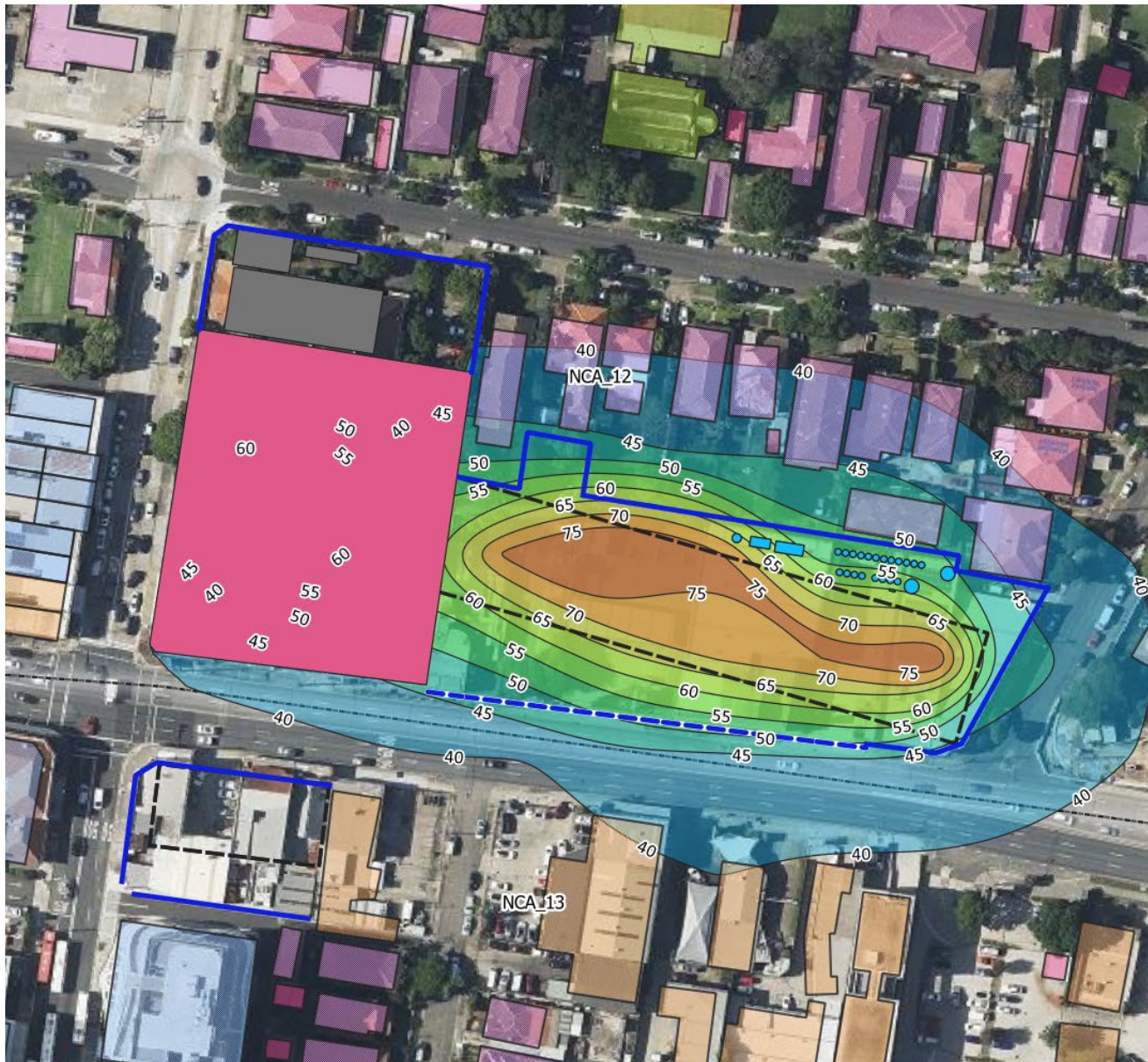
- Commercial/Business
- Commercial/Residential
- Residential
- Place of Worship

Predicted Noise Contours, dBA

- 40
- 45
- 50
- 55
- 60
- 65
- 70

NCA	NML Day	NML Eve	NML Night
NCA_12	53	48	47
NCA_13	58	53	49



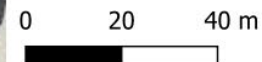


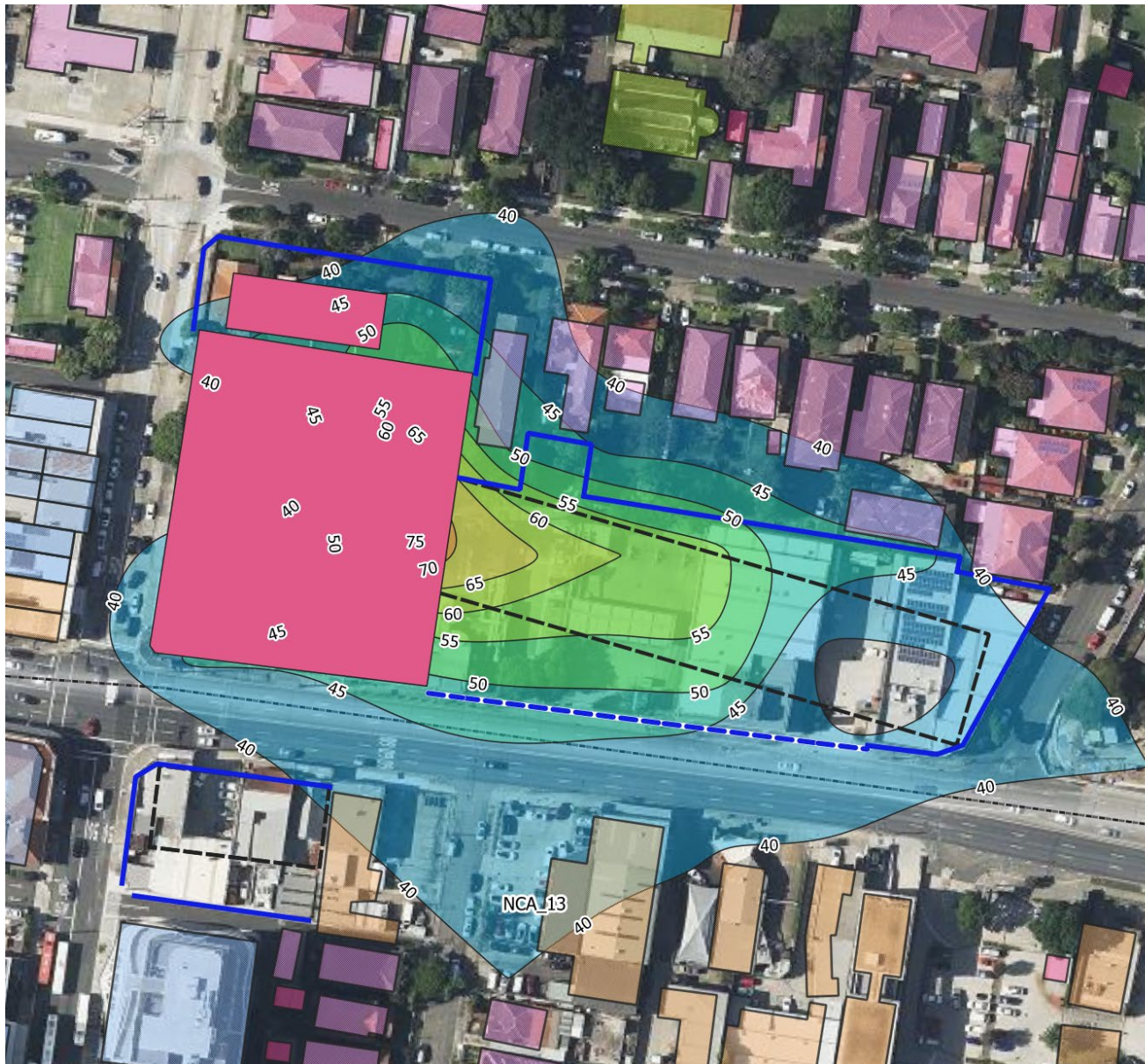
TBM Traverse Burwood
Noise Contours - All Hours

- Acoustic Shed
 - Station Box Area
 - Hoarding 2.4m
- Receiver types
- Childcare
 - Commercial/Business
 - Commercial/Residential
 - Community Use
 - Education
 - Industrial/Utilities
 - Residential
 - Medical
 - Place of Worship
 - Recreational Passive

Predicted Noise Contours, dBA

- 45
- 50
- 55
- 60
- 65
- 70





TBM Maintenance Burwood
Noise Contours - All Hours
Shed doors closed

- Acoustic Shed
- Station Box Area
- Hoarding 2.4m

Receiver types

- Childcare
- Commercial/Business
- Commercial/Residential
- Community Use
- Education
- Industrial/Utilities
- Residential
- Medical
- Place of Worship
- Recreational Passive

Predicted Noise Contours, dBA

- 45
- 50
- 55
- 60
- 65
- 70

NCA	NML Day	NML Eve	NML Night
NCA_12	53	48	47
NCA_13	58	53	49





TBM Re-launch Burwood
Noise Contours - All Hours
Shed doors closed

- Acoustic Shed
 - Station Box Area
 - Hoarding 2.4m
- Receiver types
- Childcare
 - Commercial/Business
 - Commercial/Residential
 - Community Use
 - Education
 - Industrial/Utilities
 - Residential
 - Medical
 - Place of Worship
 - Recreational Passive

Predicted Noise Contours, dBA

- 45
- 50
- 55
- 60
- 65
- 70

NCA	NML Day	NML Eve	NML Night
NCA_12	53	48	47
NCA_13	58	53	49





Appendix D. Detailed noise predictions for individual receivers

- D.1 Phase 1 and 5 - Site Establishment
- D.2 Phase 2 to 8 Piling and Excavation
- D.3 Phase 9 to 11 Tunnelling and tunnel support

Supplied as Excel spreadsheets

Tunnelling Support

Receivers			Land use	NML						Tunnelling Support						
Ref	NCA	Address		Standard			Sleep disturbance			9a	9ai	9b	9c	9d	9di	9e
				hours	Weekend day	Evening	Night	L _{Aeq} , 15min	L _{max}	Single TBM Traverse	Both TBMs Traverse (EB+WB)	TBM Maintenance	TBM Relaunch	Tunnelling support activities + WTP Unmit	Tunnelling support activities +WTP Mit	Cross Passage ramps
Exceedance legend				> 75 dBA (highly affected)			0 - 10dB > NML		10 - 20dB > NML		20 - 30dB > NML		30dB < NML			
1	NCA_12	10 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
2	NCA_13	28 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
3	NCA_13	9 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
4	NCA_12	26 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	27	26	21	29	28	27
5	NCA_12	5 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
6	NCA_12	3A LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	38	38	33	27	38	37	38
7	NCA_12	6 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	31	32	30	25	33	31	31
8	NCA_13	12 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	29	28	21	31	30	29
9	NCA_12	3 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	25	26	30	27	30	29	25
11	NCA_13	3 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	32	27	18	31	29	31
12	NCA_12	16 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	52	53	29	35	37	36	52
13	NCA_13	28 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
14	NCA_13	7 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	30	37	21	29	28	28
15	NCA_13	23 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
16	NCA_13	42 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
17	NCA_13	24/316 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	51	56	47	33	44	40	51
18	NCA_12	10 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
19	NCA_12	16 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
20	NCA_13	5 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
21	NCA_13	1 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
22	NCA_12	77/29-45 PARRAMATTA RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	34	37	34	32	34	33	34
23	NCA_13	23 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
24	NCA_12	7 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	29	32	32	26	31	30	29
26	NCA_13	14 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
27	NCA_13	16 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
29	NCA_12	19 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
30	NCA_13	13 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
31	NCA_13	35 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
32	NCA_13	33 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
33	NCA_12	33 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	29	28	22	30	29	28
34	NCA_13	6 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
35	NCA_13	32 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	23	23	24	9	24	23	23
36	NCA_12	26 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	30	30	29	31	30	27
37	NCA_12	3/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	32	38	32	28	36	33	32
38	NCA_13	15 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
39	NCA_12	28 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	27	32	22	29	28	26
40	NCA_12	25 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
41	NCA_12	2 ADA ST, CONCORD NSW 2137	EDU	65	65	65	65	65	65	0	0	0	0	0	0	0
43	NCA_12	17 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
44	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	EDU	65	65	65	65	65	65	0	0	0	0	0	0	0
45	NCA_12	10 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	42	51	46	35	48	42	42
46	NCA_13	1 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	25	38	23	28	27	24
47	NCA_13	15 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	28	26	24	30	28	25
49	NCA_12	39 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	21	24	30	23	27	26	21
50	NCA_12	23 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	31	32	33	30	35	34	31
51	NCA_13	2 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	30	27	21	31	29	29
52	NCA_12	53 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
53	NCA_13	206-212 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
55	NCA_13	352-354 PARRAMATTA RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	39	45	37	35	36	34	39
56	NCA_12	7 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	26	36	28	31	30	26
57	NCA_13	17 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
58	NCA_13	16 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
59	NCA_13	20 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	27	27	29	19	28	27	27
60	NCA_13	1A SHAFTESBURY RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	35	37	34	27	38	34	35
61	NCA_12	1B JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
62	NCA_12	1/7 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	36	36	35	31	37	36	36
63	NCA_13	17 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	23	24	40	24	28	26	23
64	NCA_13	7 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	32	33	28	34	33	32
65	NCA_13	34A BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	34	21	29	27	25
66	NCA_13	12 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
67	NCA_12	1 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	24	24	25	19	25	24	24
68	NCA_12	55 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
69	NCA_12	8 BURWOOD RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	34	34	33	29	34	33	34
70	NCA_13	20 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0

Tunnelling Support

Receivers			Land use	NML						Tunnelling Support						
				Sleep disturbance				Standard		9a	9ai	9b	9c	9d	9di	9e
Ref	NCA	Address	hours	Weekend day	Evening	Night	L _{Aeq} , 15min	L _{max}	Single TBM Traverse	Both TBMs Traverse (EB+WB)	TBM Maintenance	TBM Relaunch	Tunnelling support activities + WTP Unmit	Tunnelling support activities +WTP Mit	Cross Passage ramps	
71	NCA_13	13 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
72	NCA_12	51A BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
73	NCA_13	22 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
74	NCA_13	1 Esher ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	33	35	31	30	37	34	
75	NCA_13	400-414 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0	0	0	
77	NCA_12	22 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	28	33	25	30	29	
78	NCA_13	2 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	27	30	24	28	27	
79	NCA_12	8 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	41	49	46	34	49	42	
81	NCA_12	4 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	24	24	28	23	28	27	
82	NCA_12	49-53 PARRAMATTA RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	28	28	28	20	29	28	
83	NCA_12	6 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
84	NCA_13	4 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	30	31	31	25	31	30	
85	NCA_12	15 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	34	37	40	40	45	43	
86	NCA_13	20 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
87	NCA_13	15 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	32	28	18	32	31	
88	NCA_12	22 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	30	32	33	31	35	34	
89	NCA_12	9 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
90	NCA_12	21 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
91	NCA_12	5 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
93	NCA_13	34 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
94	NCA_12	30 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	29	34	28	31	30	
95	NCA_12	1 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
96	NCA_13	30 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
97	NCA_13	21 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	35	31	27	35	33	
98	NCA_13	26A GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
99	NCA_13	17 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
100	NCA_12	8P GIPPS ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0	0	0	
101	NCA_12	19 BURTON ST, CONCORD NSW 2137	PoW	65	65	65	65	65	65	34	42	36	34	37	36	
102	NCA_12	UNIT 4 69 PARRAMATTA RD, CONCORD NSW 213	COM	70	70	70	70	70	70	0	0	0	0	0	0	
103	NCA_13	14 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	27	36	19	27	25	
104	NCA_12	13 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
105	NCA_12	13 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	23	24	26	23	27	26	
106	NCA_12	8 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	32	35	34	32	39	38	
107	NCA_13	12 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	26	23	28	27	
108	NCA_12	22/1 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	32	39	36	34	36	35	
109	NCA_13	19 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
110	NCA_12	4 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
111	NCA_12	3 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	29	32	31	29	34	33	
112	NCA_13	18 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
113	NCA_13	8 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
114	NCA_13	27 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
115	NCA_13	3 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	22	23	27	23	26	25	
116	NCA_13	30 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
117	NCA_13	34 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	25	6	28	26	
118	NCA_13	9 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	27	31	29	23	30	28	
119	NCA_12	10 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	29	28	25	30	29	
120	NCA_13	29 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
121	NCA_12	27 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	30	30	29	25	31	30	
122	NCA_13	8 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	24	25	21	26	25	
123	NCA_12	22 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	31	35	33	31	36	34	
124	NCA_13	50A BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
125	NCA_12	8 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
126	NCA_13	UNIT 4 1A PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
127	NCA_12	1/16 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	44	59	55	50	51	50	
128	NCA_13	36 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
129	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	0	0	0	0	0	0	
130	NCA_12	12 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	33	50	26	32	31	
131	NCA_13	44 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
132	NCA_12	25/1 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	30	38	30	23	33	31	
133	NCA_13	4 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
135	NCA_12	3 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
136	NCA_13	22 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	26	26	15	28	26	
137	NCA_12	12 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	25	26	25	20	28	27	
138	NCA_12	31 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	29	31	29	26	31	30	
139	NCA_12	14A BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	45	54	48	40	47	44	
140	NCA_12	17 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	38	43	49	36	41	39	
141	NCA_13	33 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	

Tunnelling Support

Receivers			Land use	NML						Tunnelling Support						
				Sleep disturbance				Standard		9a	9ai	9b	9c	9d	9di	9e
Ref	NCA	Address		hours	Weekend day	Evening	Night	LAeq, 15min	Lmax	Single TBM Traverse	Both TBMs Traverse (EB+WB)	TBM Maintenance	TBM Relaunch	Tunnelling support activities + WTP Unmit	Tunnelling support activities +WTP Mit	Cross Passage ramps
143	NCA_13	29 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
144	NCA_12	31 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
145	NCA_12	2 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	24	27	31	24	29	27	24
146	NCA_13	8 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	34	31	20	33	31	29
147	NCA_13	37/16-22 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	35	42	32	25	36	31	35
148	NCA_12	25 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	31	39	33	31	34	33	31
149	NCA_13	22 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
151	NCA_12	4 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	33	33	30	25	33	32	33
152	NCA_13	UNIT 2 31 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
153	NCA_13	UNIT 3 54 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
154	NCA_12	5 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	35	41	35	31	38	35	35
156	NCA_12	15/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	30	30	30	24	31	29	30
158	NCA_12	12 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
159	NCA_12	27 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
160	NCA_13	11 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
161	NCA_13	11 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	30	35	28	21	32	30	30
162	NCA_13	7 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
163	NCA_13	15 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
164	NCA_12	29 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	29	30	32	29	33	32	29
165	NCA_12	9/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	30	39	29	21	32	31	30
166	NCA_12	10 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	52	52	38	36	37	36	52
167	NCA_12	8P GIPPS ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
169	NCA_12	14 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
170	NCA_12	35 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	22	26	27	24	27	26	22
171	NCA_12	CONCORD OVAL 8 GIPPS ST, CONCORD NSW 213	REC/A	65	65	65	65	65	65	37	52	40	28	38	33	37
172	NCA_12	29 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
173	NCA_13	7A MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	31	25	20	31	30	31
174	NCA_13	16 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
175	NCA_13	29 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
176	NCA_12	2 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	40	40	40	25	40	38	40
177	NCA_12	7 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
178	NCA_12	3/2-4 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	44	58	46	32	52	43	44
179	NCA_12	23 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
180	NCA_13	9 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
181	NCA_12	17 BURTON ST, CONCORD NSW 2137	PoW	65	65	65	65	65	65	36	41	40	38	43	41	36
182	NCA_12	5 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
183	NCA_13	41 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
184	NCA_12	17 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	25	26	27	21	28	27	25
185	NCA_12	39 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	25	26	26	23	28	27	25
186	NCA_13	21 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
187	NCA_12	55 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
188	NCA_12	CONCORD OVAL 8 GIPPS ST, CONCORD NSW 213	REC/A	65	65	65	65	65	65	40	50	44	27	41	38	40
189	NCA_12	CONCORD OVAL 8 GIPPS ST, CONCORD NSW 213	REC/A	65	65	65	65	65	65	0	0	0	0	0	0	0
190	NCA_13	3 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	33	35	27	21	34	31	33
191	NCA_13	24 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
192	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
193	NCA_12	37 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	28	26	18	28	27	27
194	NCA_12	9 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
196	NCA_12	11/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	31	37	32	28	35	33	31
197	NCA_13	16 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
198	NCA_13	11 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	32	32	22	33	32	32
199	NCA_13	31 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
200	NCA_12	23 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
201	NCA_12	49B BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
202	NCA_13	26 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
203	NCA_13	16 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
204	NCA_13	26 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
205	NCA_13	1 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	32	36	21	32	30	31
206	NCA_13	19 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	32	28	22	30	29	28
208	NCA_12	52 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	25	28	31	24	29	28	25
209	NCA_12	6 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
210	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
211	NCA_13	12 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
212	NCA_13	8 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	30	32	29	24	31	30	30
213	NCA_13	28 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	25	8	27	26	25
214	NCA_12	20 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
215	NCA_12	3/24 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	33	31	29	33	31	27

Tunnelling Support

Receivers			Land use	NML						Tunnelling Support						
				Sleep disturbance				Standard		9a	9ai	9b	9c	9d	9di	9e
Ref	NCA	Address	hours	Weekend day	Evening	Night	LAeq, 15min	Lmax	Single TBM Traverse	Both TBMs Traverse (EB+WB)	TBM Maintenance	TBM Relaunch	Tunnelling support activities + WTP Unmit	Tunnelling support activities +WTP Mit	Cross Passage ramps	
216	NCA_13	MLC SCHOOL SPORTING FACILITY 19 BRITANNI	RES	58	53	53	49	59	65	0	0	0	0	0	0	
217	NCA_12	7/2-4 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	40	51	35	28	50	41	
218	NCA_12	11 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
220	NCA_12	46 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
222	NCA_13	17 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
225	NCA_13	6 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	30	31	32	24	33	31	
226	NCA_13	24 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	28	30	22	29	28	
227	NCA_12	36 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	24	26	28	25	28	27	
228	NCA_12	1/15 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	37	42	38	34	41	39	
230	NCA_12	20 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	30	36	32	29	35	34	
231	NCA_13	5 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	27	34	28	26	28	27	
232	NCA_13	386 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0	0	0	
233	NCA_12	22 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
234	NCA_12	4/23 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	35	40	40	39	44	42	
235	NCA_12	10 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
236	NCA_12	31 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	28	25	19	29	28	
237	NCA_13	26 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	26	9	27	26	
238	NCA_13	3 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
239	NCA_13	15 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	27	27	25	28	27	
240	NCA_13	13 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
241	NCA_13	CHRISTINAS GARDEN 11/18-20 GRANTHAM ST,	RES	58	53	53	49	59	65	0	0	0	0	0	0	
242	NCA_13	402/3-7 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	31	34	32	34	33	
243	NCA_13	14 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
244	NCA_13	420 PARRAMATTA RD, STRATHFIELD NSW 2135	COM	70	70	70	70	70	70	0	0	0	0	0	0	
245	NCA_13	33 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
246	NCA_12	40 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
247	NCA_12	40 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
248	NCA_12	21 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	36	43	41	39	44	42	
249	NCA_12	12 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	42	50	46	33	47	42	
250	NCA_13	UNIT 201 10-12 BURWOOD RD, BURWOOD NSW 2	RES	58	53	53	49	59	65	38	38	31	28	36	32	
251	NCA_13	23 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
252	NCA_12	37 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	23	24	27	24	27	26	
253	NCA_12	5 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	26	28	24	29	28	
254	NCA_12	21 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	31	32	34	32	36	35	
255	NCA_13	35 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
256	NCA_13	23 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
257	NCA_13	31 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	24	25	17	27	26	
258	NCA_13	5A SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	34	29	20	36	32	
259	NCA_13	37 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
260	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	0	0	0	0	0	0	
261	NCA_13	35A BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
262	NCA_12	11 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
263	NCA_13	6/9 BURWOOD RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	28	28	29	26	30	29	
264	NCA_12	9 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	36	43	35	31	38	36	
265	NCA_13	32 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
266	NCA_12	14 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
267	NCA_12	2/10 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
268	NCA_13	46 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
269	NCA_12	4/2-4 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	41	41	42	26	40	38	
270	NCA_12	4 DAVID ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
271	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
272	NCA_12	32/1 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	27	28	17	29	28	
274	NCA_12	8 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	21	24	28	23	27	25	
275	NCA_13	5 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	38	29	19	35	31	
276	NCA_13	214 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0	0	0	
277	NCA_12	32 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	28	28	26	29	28	
278	NCA_12	4/43 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
279	NCA_13	30 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	23	24	27	15	24	23	
280	NCA_12	15 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	34	42	34	31	37	35	
281	NCA_13	10 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
283	NCA_12	7 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
285	NCA_13	605/11-13 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	29	37	27	31	30	
286	NCA_13	4 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
287	NCA_12	13/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	29	31	34	31	33	32	
289	NCA_12	42 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
290	NCA_12	2 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
291	NCA_12	8 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	48	49	37	36	37	36	

Tunnelling Support

Receivers			Land use	NML						Tunnelling Support						
				Sleep disturbance				Standard		Weekend		9a	9ai	9b	9c	9d
Ref	NCA	Address	hours	day	Evening	Night	LAeq, 15min	Lmax	Single TBM Traverse	Both TBMs Traverse (EB+WB)	TBM Maintenance	TBM Relaunch	Tunnelling support activities + WTP Unmit	Tunnelling support activities +WTP Mit	Cross Passage ramps	
292	NCA_12	71 PARRAMATTA RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0	0	0	
293	NCA_13	29 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
294	NCA_12	46 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	26	27	20	27	26	
295	NCA_12	5 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	25	25	35	27	30	25	
296	NCA_12	12 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
297	NCA_12	27 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
298	NCA_13	UNIT 7 3 ARTHURSLAIGH ST, BURWOOD NSW 21	RES	58	53	53	49	59	65	0	0	0	0	0	0	
299	NCA_12	3/18 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	28	28	19	30	27	
300	NCA_12	1/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	26	27	19	28	26	
301	NCA_13	8 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
302	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	35	38	39	26	36	35	
303	NCA_13	7 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
304	NCA_13	34 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
305	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
306	NCA_13	3 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	41	33	30	37	32	
307	NCA_13	24 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
308	NCA_13	38 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
309	NCA_13	28-32 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
310	NCA_12	7 MELBOURNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
311	NCA_12	41 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	24	31	28	26	29	24	
312	NCA_13	21 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
313	NCA_12	42 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	27	28	24	29	27	
314	NCA_13	9 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
315	NCA_13	6 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	31	30	22	30	29	
316	NCA_12	36 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
317	NCA_12	8 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	29	31	30	24	31	29	
318	NCA_13	27 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
319	NCA_13	20 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
320	NCA_13	360-370 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	27	29	30	26	29	27	
321	NCA_13	2 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
322	NCA_12	1 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
323	NCA_12	14A BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	57	57	39	37	38	57	
324	NCA_12	CONCORD OVAL 8 GIPPS ST, CONCORD NSW 213	REC/A	65	65	65	65	65	65	0	0	0	0	0	0	
325	NCA_12	48 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
326	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	EDU	65	65	65	65	65	65	0	0	0	0	0	0	
327	NCA_13	12 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
328	NCA_12	10/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	31	39	32	27	34	31	
330	NCA_13	10 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	24	28	26	28	24	
331	NCA_13	318 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	39	46	41	31	42	39	
332	NCA_12	12 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
333	NCA_12	42 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
334	NCA_12	57 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
335	NCA_13	27 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	23	23	31	21	25	23	
336	NCA_12	1 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
337	NCA_13	203/19 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	26	22	27	25	
338	NCA_13	16 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
339	NCA_13	4 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	23	23	26	23	27	23	
340	NCA_13	320-324 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	40	48	42	32	44	40	
341	NCA_13	21 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
342	NCA_13	40 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
343	NCA_13	22 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
345	NCA_13	UNIT 1 23 SHAFTESBURY RD, BURWOOD NSW 21	RES	58	53	53	49	59	65	0	0	0	0	0	0	
346	NCA_13	11 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	30	31	34	19	31	30	
347	NCA_12	10/45A BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
348	NCA_13	30 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	28	7	26	25	
350	NCA_13	4 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	29	31	23	29	29	
351	NCA_12	52 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
352	NCA_13	35 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
353	NCA_12	2 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
354	NCA_12	57-59 PARRAMATTA RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	26	30	26	16	27	26	
355	NCA_12	54 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	25	25	27	21	27	25	
357	NCA_13	19 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
358	NCA_13	7 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	40	25	29	25	
359	NCA_13	302-314 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	34	41	33	27	37	34	
360	NCA_12	40 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
361	NCA_13	1 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	32	34	24	31	29	
362	NCA_12	2/16 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	29	37	29	23	31	29	

Tunnelling Support

Receivers			Land use	NML						Tunnelling Support						
				Standard		Weekend		Sleep disturbance		9a	9ai	9b	9c	9d	9di	9e
Ref	NCA	Address	hours	day	Evening	Night	LAeq, 15min	Lmax	Single TBM Traverse	Both TBMs Traverse (EB+WB)	TBM Maintenance	TBM Relaunch	Tunnelling support activities + WTP Unmit	Tunnelling support activities +WTP Mit	Cross Passage ramps	
363	NCA_13	17/15 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	26	26	22	27	26	26
364	NCA_13	4 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	33	30	25	32	30	29
365	NCA_13	9 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	33	32	22	33	32	32
366	NCA_12	1/16 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	32	25	20	29	28	27
367	NCA_13	374-380 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	23	23	35	22	27	26	23
368	NCA_13	11 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
369	NCA_13	20 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	23	23	21	23	27	25	23
370	NCA_13	21 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
371	NCA_12	2A BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	40	47	37	35	36	35	40
372	NCA_12	19 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
374	NCA_13	5 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	31	29	16	32	30	31
375	NCA_13	2 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
376	NCA_12	12 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
377	NCA_12	27 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	33	46	28	31	30	28
378	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
379	NCA_13	23 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
381	NCA_12	5 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	32	34	27	31	30	28
382	NCA_12	8 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
383	NCA_13	10 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
384	NCA_13	6 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	34	35	40	33	37	36	34
385	NCA_13	25 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
386	NCA_13	13 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	31	28	24	33	32	31
387	NCA_13	21 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
389	NCA_13	28 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
390	NCA_12	50 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
392	NCA_13	18 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	27	27	27	19	28	27	27
394	NCA_12	1E BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	32	26	24	27	26	27
395	NCA_13	SHOP 1 52 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
396	NCA_13	UNIT 5 1A BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	38	26	24	26	25	29
398	NCA_12	17 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
399	NCA_12	1 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	36	30	28	32	30	27
400	NCA_12	7 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	30	32	31	26	32	31	30
401	NCA_13	7 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	32	32	20	31	30	31
403	NCA_13	23 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	24	27	24	27	26	24
404	NCA_12	8A ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
405	NCA_12	1/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	30	32	30	24	32	31	30
406	NCA_13	20 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
407	NCA_13	7 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	27	27	30	23	29	27	27
408	NCA_13	15 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
409	NCA_12	25 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	31	31	44	22	32	30	31
410	NCA_12	5/24 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	29	32	30	29	33	31	29
411	NCA_12	8P GIPPS ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
412	NCA_13	29 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	25	19	27	26	25
414	NCA_12	13 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	36	38	38	33	40	38	36
415	NCA_12	1 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	34	36	33	30	36	34	34
416	NCA_13	9 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	28	30	22	29	28	28
417	NCA_12	8P GIPPS ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
418	NCA_13	30 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
419	NCA_12	3/47 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
420	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
421	NCA_13	34 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
422	NCA_13	18 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
423	NCA_12	41 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	23	23	29	23	26	25	23
424	NCA_13	39 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
425	NCA_13	388-390 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
426	NCA_13	24 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	25	11	27	26	25
427	NCA_12	10 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	22	22	28	18	25	24	22
428	NCA_13	6 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	28	25	22	29	27	28
429	NCA_13	24 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
430	NCA_12	11 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
431	NCA_12	18 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
432	NCA_12	GARAGE 11/45 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
434	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	EDU	65	65	65	65	65	65	0	0	0	0	0	0	0
435	NCA_13	26C BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	28	29	18	30	29	28
436	NCA_13	1/4 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
437	NCA_13	46 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
438	NCA_13	1 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	34	35	35	24	35	32	34

Tunnelling Support

Receivers			Land use	NML						Tunnelling Support						
				Standard		Weekend		Sleep disturbance		9a	9ai	9b	9c	9d	9di	9e
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Single TBM Traverse	Both TBMs Traverse (EB+WB)	TBM Maintenance	TBM Relaunch	Tunnelling support activities + WTP Unmit	Tunnelling support activities +WTP Mit	Cross Passage ramps
439	NCA_13	23 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	33	30	20	30	28	28
440	NCA_13	6 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	24	27	24	27	26	24
441	NCA_12	7/29-45 PARRAMATTA RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	45	45	35	34	36	34	45
442	NCA_12	12 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
443	NCA_13	11 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	26	27	24	28	27	26
444	NCA_13	10 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
445	NCA_13	42 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
446	NCA_13	34 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
447	NCA_12	1 DAVID ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
448	NCA_13	31A NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
449	NCA_13	14 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	32	31	25	30	29	28
450	NCA_12	9 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	31	35	19	30	28	28
451	NCA_12	36A GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
452	NCA_13	26 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
453	NCA_12	33 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
454	NCA_12	31 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	39	32	27	30	29	27
455	NCA_12	8P GIPPS ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
458	NCA_12	4 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
459	NCA_12	34 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	27	28	26	30	29	26
460	NCA_13	27 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	26	25	18	27	26	25
461	NCA_13	8 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
462	NCA_12	14 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	31	33	28	32	31	28
463	NCA_13	33 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
464	NCA_12	3 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	23	24	23	16	26	25	23
465	NCA_13	332-334 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	40	46	45	38	43	40	40
466	NCA_12	6 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
467	NCA_13	8 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	33	34	45	32	35	34	33
468	NCA_12	7 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
469	NCA_13	25 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	34	39	30	34	33	32
470	NCA_12	9 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
471	NCA_13	7/15 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	26	33	23	28	27	26
472	NCA_13	PARKVIEW GARDENS CARS 23 3-13 COMER ST,	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
473	NCA_12	12 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	41	46	42	26	41	40	41
474	NCA_12	11 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
475	NCA_13	14 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
476	NCA_13	12 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	31	31	25	33	31	29
477	NCA_13	29 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
478	NCA_13	UNIT 8 3 ARTHURSLEIGH ST, BURWOOD NSW 21	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
479	NCA_13	31 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
480	NCA_13	38 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
481	NCA_13	25 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
482	NCA_13	14 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	28	27	19	29	28	28
483	NCA_12	CONCORD OVAL 8 GIPPS ST, CONCORD NSW 213	REC/A	65	65	65	65	65	65	0	0	0	0	0	0	0
484	NCA_12	3 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	30	30	28	32	31	28
485	NCA_13	41 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
486	NCA_13	8 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
487	NCA_13	1 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
488	NCA_13	26 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
489	NCA_13	4 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	30	30	30	25	31	30	30
490	NCA_13	3 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
492	NCA_13	UNIT 1 24 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	28	28	22	31	28	28
493	NCA_12	1A LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	44	53	41	24	42	40	44
494	NCA_13	36 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
495	NCA_12	29 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	38	30	28	32	31	28
496	NCA_12	2A LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	25	25	27	22	28	27	25
498	NCA_12	44 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
499	NCA_13	23 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	34	32	27	34	33	31
500	NCA_12	2/16 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	33	28	20	31	30	28
501	NCA_13	18 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
502	NCA_12	5 MELBOURNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
503	NCA_13	42 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
504	NCA_12	12A BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	57	57	39	37	38	37	57
505	NCA_13	23A LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
506	NCA_13	5 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	33	33	29	36	33	32
507	NCA_12	48 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	26	31	23	28	27	26
508	NCA_12	14 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
510	NCA_13	5 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0

Tunnelling Support

Receivers			Land use	NML						Tunnelling Support						
				Sleep disturbance				Standard		9a	9ai	9b	9c	9d	9di	9e
Ref	NCA	Address	hours	Weekend day	Evening	Night	LAeq, 15min	Lmax	Single TBM Traverse	Both TBMs Traverse (EB+WB)	TBM Maintenance	TBM Relaunch	Tunnelling support activities + WTP Unmit	Tunnelling support activities +WTP Mit	Cross Passage ramps	
511	NCA_13	24 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
512	NCA_12	43 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
513	NCA_13	19 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
514	NCA_13	13 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	29	28	20	30	28	
515	NCA_13	16 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	27	27	27	20	28	27	
516	NCA_12	3 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
517	NCA_12	49A BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
518	NCA_13	22 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
519	NCA_12	6 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
520	NCA_13	11 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	27	30	31	25	32	29	
521	NCA_13	10 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
522	NCA_12	29 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	29	33	30	25	32	30	
524	NCA_13	45/316 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	36	43	37	30	40	35	
525	NCA_12	19 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	32	32	37	23	33	32	
526	NCA_12	3 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	34	34	34	30	36	35	
527	NCA_12	30 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	27	26	21	29	28	
528	NCA_13	10 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	30	33	32	25	33	31	
529	NCA_13	31 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
531	NCA_13	27 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
533	NCA_13	15 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	28	29	20	29	27	
534	NCA_13	17 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
535	NCA_12	29A BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	35	30	27	30	29	
536	NCA_13	UNIT 2 6 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
537	NCA_13	5 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	28	28	26	30	29	
538	NCA_13	15 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	31	31	23	32	31	
539	NCA_13	19 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	26	28	25	28	27	
540	NCA_13	32 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
541	NCA_12	6 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	33	35	31	27	35	33	
542	NCA_13	25 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
543	NCA_13	336-336A PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	37	42	43	38	40	38	
544	NCA_12	28 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	37	51	36	34	37	36	
545	NCA_12	11 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	24	25	25	20	28	26	
546	NCA_13	36-40 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	25	26	7	27	26	
547	NCA_13	25 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	26	21	15	28	27	
548	NCA_12	9 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	24	25	26	22	28	27	
549	NCA_13	28 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
550	NCA_13	320 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	37	44	38	31	41	37	
551	NCA_12	15 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	22	22	24	11	25	24	
552	NCA_12	3 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
553	NCA_13	5 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
554	NCA_13	3 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
555	NCA_13	27A NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	23	23	24	21	25	24	
556	NCA_12	8/50 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	30	27	24	29	28	
557	NCA_13	17 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	32	31	22	31	30	
558	NCA_12	UNIT 2 3 MELBOURNE ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0	0	0	
559	NCA_13	19 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	33	34	28	34	33	
560	NCA_12	12A BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
561	NCA_12	3B LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	34	36	33	26	34	33	
562	NCA_13	14 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	32	34	27	32	31	
563	NCA_12	8 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
564	NCA_12	1C GIPPS ST, CONCORD NSW 2137	REC/A	65	65	65	65	65	65	0	0	0	0	0	0	
565	NCA_13	25 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
566	NCA_12	15/38 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	49	49	35	33	35	34	
567	NCA_13	13 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	30	31	28	20	32	31	
569	NCA_13	2/15 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	26	26	10	28	27	
570	NCA_12	38 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	24	27	27	25	29	27	
571	NCA_12	14 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
573	NCA_12	6/6 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	43	55	47	32	54	45	
575	NCA_13	31A SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
576	NCA_13	18 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	23	23	32	23	26	25	
577	NCA_13	8 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
578	NCA_12	5 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	32	32	30	26	33	32	
579	NCA_12	38 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
580	NCA_13	31 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	
581	NCA_12	5 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	
582	NCA_13	318 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	37	43	38	30	42	38	
583	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	EDU	65	65	65	65	65	65	0	0	0	0	0	0	

Tunnelling Support

Receivers			Land use	NML						Tunnelling Support						
Ref	NCA	Address		Standard				Sleep disturbance		9a	9ai	9b	9c	9d	9di	9e
				hours	Weekend day	Evening	Night	LAeq, 15min	Lmax	Single TBM Traverse	Both TBMs Traverse (EB+WB)	TBM Maintenance	TBM Relaunch	Tunnelling support activities + WTP Unmit	Tunnelling support activities +WTP Mit	Cross Passage ramps
584	NCA_13	11 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
585	NCA_13	10 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
586	NCA_12	4 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
587	NCA_13	7 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
589	NCA_13	10 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
590	NCA_12	33 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
591	NCA_12	33 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	23	35	29	27	29	28	23
592	NCA_12	44 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	27	29	21	30	29	27
593	NCA_13	7 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
594	NCA_13	21 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	26	31	23	27	26	25
595	NCA_13	1A SHAFTESBURY RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	37	45	34	28	39	35	37
596	NCA_13	12 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	32	37	30	34	33	32
597	NCA_12	10 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
598	NCA_13	12 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
599	NCA_13	7A SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	30	30	40	18	31	29	30
601	NCA_12	15 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	22	23	27	20	26	25	22
602	NCA_13	4 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
603	NCA_13	8 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
604	NCA_13	240 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
605	NCA_13	13 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
606	NCA_13	6 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
607	NCA_13	10 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	33	33	38	31	34	33	33
608	NCA_13	10 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	34	30	20	31	30	29
609	NCA_12	29/1 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	32	28	19	31	30	28
610	NCA_12	22 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	29	30	28	17	30	28	29
611	NCA_12	18 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
612	NCA_12	17 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	22	22	24	9	24	23	22
613	NCA_12	17 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	33	33	38	36	39	38	33
614	NCA_12	13 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
615	NCA_13	45 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
616	NCA_12	34 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	25	27	28	26	29	28	25
617	NCA_13	5 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	26	0	22	28	27	26
618	NCA_13	9 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	31	30	23	31	30	31
619	NCA_12	15 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
620	NCA_12	12 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
621	NCA_12	5 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	24	24	25	17	26	25	24
622	NCA_13	26 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
623	NCA_12	1/18 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	28	29	32	19	31	30	28
624	NCA_13	41 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
625	NCA_12	1 FORSTER ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
626	NCA_12	29 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
627	NCA_13	9 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	30	30	26	17	30	29	30
628	NCA_12	65 PARRAMATTA RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0	0	0	0
629	NCA_13	10 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
630	NCA_12	1A BROUGHTON ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	24	25	29	22	26	25	24
631	NCA_12	4 DAVID ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
632	NCA_13	46/27-29 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	25	25	28	26	30	28	25
633	NCA_12	8 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
634	NCA_13	24 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
635	NCA_13	35 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
637	NCA_12	11 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	36	43	37	32	38	37	36
638	NCA_13	9 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	26	29	24	28	27	26
639	NCA_12	2 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	32	33	31	30	35	33	32
640	NCA_13	21 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	24	26	23	27	26	24
641	NCA_12	44 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
642	NCA_13	25 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
643	NCA_13	27A SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
644	NCA_13	13 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	26	27	24	29	28	26
645	NCA_13	21 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	29	34	31	24	31	29	29
646	NCA_13	16 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	22	22	24	15	24	23	22
647	NCA_12	6 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	23	24	30	18	27	26	23
648	NCA_13	1 BURWOOD RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	30	33	33	32	34	32	30
649	NCA_12	32 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	28	28	26	30	29	26
652	NCA_13	19 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	26	29	29	19	29	27	26
653	NCA_13	14A NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	27	27	27	21	29	28	27
654	NCA_13	25 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	31	34	36	28	34	32	31
655	NCA_13	1 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0

Tunnelling Support

Receivers			Land use	NML						Tunnelling Support						
Ref	NCA	Address		NML				Sleep disturbance		9a	9ai	9b	9c	9d	9di	9e
				Standard hours	Weekend day	Evening	Night	L _{Aeq} , 15min	L _{max}	Single TBM Traverse	Both TBMs Traverse (EB+WB)	TBM Maintenance	TBM Relaunch	Tunnelling support activities + WTP Unmit	Tunnelling support activities +WTP Mit	Cross Passage ramps
656	NCA_13	21 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	24	23	12	26	25	24
657	NCA_13	37 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
659	NCA_12	10 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	26	29	34	18	28	27	26
660	NCA_12	15 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
661	NCA_13	UNIT 1 1A BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
662	NCA_12	46 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
663	NCA_12	52 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
664	NCA_13	20 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
665	NCA_12	3 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
666	NCA_13	21 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
667	NCA_13	10 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
668	NCA_12	28 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	27	31	31	29	32	30	27
669	NCA_12	1A BROUGHTON ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	26	26	25	22	27	26	26
670	NCA_13	28 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	24	24	23	13	25	24	24
671	NCA_13	9 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
672	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	PoW	65	65	65	65	65	65	0	0	0	0	0	0	0
673	NCA_12	36 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	24	24	25	17	26	25	24
674	NCA_13	17 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	32	33	29	22	32	31	32
675	NCA_12	29 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
676	NCA_13	15/10-12 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
677	NCA_13	10 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	33	5	20	30	27	28
678	NCA_12	16 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
679	NCA_13	22 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
680	NCA_13	9/28-30A BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	59	65	28	30	28	22	32	29	28
681	NCA_12	1A JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	57	65	0	0	0	0	0	0	0
682	NCA_13	25 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	59	65	23	23	27	22	26	25	23
683	NCA_13	3 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	59	65	0	0	0	0	0	0	0
685	NCA_12	18 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	57	65	49	52	37	35	37	36	49

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
				Exceedance legend > 75 dBA (highly affected)						 0 - 10dB > NML 10 - 20dB > NML 20 - 30dB > NML +30dB > NML			
1	NCA_12	10 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
2	NCA_13	28 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
3	NCA_13	9 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
4	NCA_12	26 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	57	45	48
5	NCA_12	5 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
6	NCA_12	3A LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	47	60	48	51
7	NCA_12	6 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	45	48
8	NCA_13	12 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	49	62	50	53
9	NCA_12	3 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	62	50	53
11	NCA_13	3 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	41	53	41	44
12	NCA_12	16 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	62	75	62	65
13	NCA_13	28 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
14	NCA_13	7 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	57	45	48
15	NCA_13	23 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
16	NCA_13	42 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
17	NCA_13	24/316 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	54	67	54	57
18	NCA_12	10 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
19	NCA_12	16 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
20	NCA_13	5 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
21	NCA_13	1 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
22	NCA_12	77/29-45 PARRAMATTA RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	59	72	59	62
23	NCA_13	23 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
24	NCA_12	7 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	59	46	49
26	NCA_13	14 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
27	NCA_13	16 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
29	NCA_12	19 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
30	NCA_13	13 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
31	NCA_13	35 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
32	NCA_13	33 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
33	NCA_12	33 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	55	43	46
34	NCA_13	6 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
35	NCA_13	32 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	30	43	30	33
36	NCA_12	26 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	63	51	54
37	NCA_12	3/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	62	50	53
38	NCA_13	15 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
39	NCA_12	28 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	57	45	48
40	NCA_12	25 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
41	NCA_12	2 ADA ST, CONCORD NSW 2137	EDU	65	65	65	65	65	65	0	0	0	0
43	NCA_12	17 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
44	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	EDU	65	65	65	65	65	65	0	0	0	0
45	NCA_12	10 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	56	69	56	59
46	NCA_13	1 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	47	51
47	NCA_13	15 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	57	45	48
49	NCA_12	39 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	59	46	49
50	NCA_12	23 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	62	49	53
51	NCA_13	2 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	43	56	43	47
52	NCA_12	53 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
53	NCA_13	206-212 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0
55	NCA_13	352-354 PARRAMATTA RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	63	76	63	66
56	NCA_12	7 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	62	50	53
57	NCA_13	17 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
58	NCA_13	16 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
59	NCA_13	20 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	35	47	35	38
60	NCA_13	1A SHAFTESBURY RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	47	60	47	50
61	NCA_12	1B JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
62	NCA_12	1/7 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	62	50	53
63	NCA_13	17 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	48	61	49	52
64	NCA_13	7 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	51	64	51	55
65	NCA_13	34A BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	40	52	40	43
66	NCA_13	12 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
67	NCA_12	1 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	39	51	39	42
68	NCA_12	55 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
69	NCA_12	8 BURWOOD RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	56	68	56	59
70	NCA_13	20 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
71	NCA_13	13 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
72	NCA_12	51A BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
73	NCA_13	22 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
74	NCA_13	1 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	57	69	57	60
75	NCA_13	400-414 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0
77	NCA_12	22 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	45	49
78	NCA_13	2 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	49	61	49	52
79	NCA_12	8 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	56	69	56	60
81	NCA_12	4 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	57	45	48
82	NCA_12	49-53 PARRAMATTA RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	48	60	48	51
83	NCA_12	6 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
84	NCA_13	4 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	52	64	52	55
85	NCA_12	15 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	58	71	59	62
86	NCA_13	20 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
87	NCA_13	15 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	43	56	44	47
88	NCA_12	22 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	56	69	57	60
89	NCA_12	9 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
90	NCA_12	21 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
91	NCA_12	5 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
93	NCA_13	34 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
94	NCA_12	30 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	48	60	48	51
95	NCA_12	1 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
96	NCA_13	30 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
97	NCA_13	21 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	51	63	51	54
98	NCA_13	26A GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
99	NCA_13	17 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
100	NCA_12	8P GIPPS ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0
101	NCA_12	19 BURTON ST, CONCORD NSW 2137	PoW	65	65	65	65	65	65	52	65	53	56
102	NCA_12	UNIT 4 69 PARRAMATTA RD, CONCORD NSW 213	COM	70	70	70	70	70	70	0	0	0	0
103	NCA_13	14 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	42	55	43	46
104	NCA_12	13 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
105	NCA_12	13 LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	45	49
106	NCA_12	8 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	53	65	53	56

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
107	NCA_13	12 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	48	51
108	NCA_12	22/1 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	53	65	53	56
109	NCA_13	19 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
110	NCA_12	4 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
111	NCA_12	3 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	47	60	48	51
112	NCA_13	18 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
113	NCA_13	8 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
114	NCA_13	27 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
115	NCA_13	3 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	58	46	49
116	NCA_13	30 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
117	NCA_13	34 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	26	39	26	29
118	NCA_13	9 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	57	45	48
119	NCA_12	10 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	57	45	48
120	NCA_13	29 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
121	NCA_12	27 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	56	43	46
122	NCA_13	8 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	59	46	49
123	NCA_12	22 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	55	67	55	58
124	NCA_13	50A BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
125	NCA_12	8 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
126	NCA_13	UNIT 4 1A PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
127	NCA_12	1/16 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	63	76	64	67
128	NCA_13	36 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
129	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	0	0	0	0
130	NCA_12	12 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	53	66	53	57
131	NCA_13	44 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
132	NCA_12	25/1 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	42	55	42	45
133	NCA_13	4 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
135	NCA_12	3 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
136	NCA_13	22 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	36	49	36	39
137	NCA_12	12 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	42	55	42	46
138	NCA_12	31 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	58	46	49
139	NCA_12	14A BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	63	76	64	67
140	NCA_12	17 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	56	69	57	60
141	NCA_13	33 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
143	NCA_13	29 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
144	NCA_12	31 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
145	NCA_12	2 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	46	49
146	NCA_13	8 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	59	46	49
147	NCA_13	37/16-22 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	49	62	50	53
148	NCA_12	25 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	55	68	55	58
149	NCA_13	22 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
151	NCA_12	4 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	57	45	48
152	NCA_13	UNIT 2 31 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
153	NCA_13	UNIT 3 54 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
154	NCA_12	5 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	62	50	53
156	NCA_12	15/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	59	47	50
158	NCA_12	12 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
159	NCA_12	27 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
160	NCA_13	11 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
161	NCA_13	11 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	44	57	45	48

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
162	NCA_13	7 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
163	NCA_13	15 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
164	NCA_12	29 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	48	60	48	51
165	NCA_12	9/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	46	49
166	NCA_12	10 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	63	76	64	67
167	NCA_12	8P GIPPS ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0
169	NCA_12	14 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
170	NCA_12	35 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	47	60	48	51
171	NCA_12	CONCORD OVAL 8 GIPPS ST, CONCORD NSW 213	REC/A	65	65	65	65	65	65	46	59	47	50
172	NCA_12	29 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
173	NCA_13	7A MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	41	54	41	44
174	NCA_13	16 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
175	NCA_13	29 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
176	NCA_12	2 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	61	49	52
177	NCA_12	7 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
178	NCA_12	3/2-4 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	53	66	54	57
179	NCA_12	23 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
180	NCA_13	9 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
181	NCA_12	17 BURTON ST, CONCORD NSW 2137	PoW	65	65	65	65	65	65	56	69	57	60
182	NCA_12	5 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
183	NCA_13	41 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
184	NCA_12	17 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	46	49
185	NCA_12	39 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	39	52	40	43
186	NCA_13	21 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
187	NCA_12	55 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
188	NCA_12	CONCORD OVAL 8 GIPPS ST, CONCORD NSW 213	REC/A	65	65	65	65	65	65	48	60	48	51
189	NCA_12	CONCORD OVAL 8 GIPPS ST, CONCORD NSW 213	REC/A	65	65	65	65	65	65	0	0	0	0
190	NCA_13	3 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	58	45	48
191	NCA_13	24 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
192	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
193	NCA_12	37 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	40	52	40	43
194	NCA_12	9 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
196	NCA_12	11/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	48	60	48	51
197	NCA_13	16 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
198	NCA_13	11 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	58	46	49
199	NCA_13	31 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
200	NCA_12	23 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
201	NCA_12	49B BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
202	NCA_13	26 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
203	NCA_13	16 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
204	NCA_13	26 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
205	NCA_13	1 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	41	54	41	44
206	NCA_13	19 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	43	56	43	47
208	NCA_12	52 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	57	45	48
209	NCA_12	6 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
210	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	0	0	0	0
211	NCA_13	12 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
212	NCA_13	8 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	48	51
213	NCA_13	28 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	29	42	29	33
214	NCA_12	20 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
215	NCA_12	3/24 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	62	50	53
216	NCA_13	MLC SCHOOL SPORTING FACILITY 19 BRITANNI	RES	58	53	53	49	49	49	0	0	0	0
217	NCA_12	7/2-4 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	47	59	47	50
218	NCA_12	11 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
220	NCA_12	46 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
222	NCA_13	17 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
225	NCA_13	6 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	51	63	51	54
226	NCA_13	24 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	41	54	42	45
227	NCA_12	36 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	46	49
228	NCA_12	1/15 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	53	66	54	57
230	NCA_12	20 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	56	69	57	60
231	NCA_13	5 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	50	62	50	53
232	NCA_13	386 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0
233	NCA_12	22 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
234	NCA_12	4/23 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	58	70	58	61
235	NCA_12	10 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
236	NCA_12	31 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	41	54	42	45
237	NCA_13	26 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	32	45	32	35
238	NCA_13	3 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
239	NCA_13	15 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	49	62	50	53
240	NCA_13	13 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
241	NCA_13	CHRISTINAS GARDEN 11/18-20 GRANTHAM ST,	RES	58	53	53	49	49	49	0	0	0	0
242	NCA_13	402/3-7 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	58	71	59	62
243	NCA_13	14 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
244	NCA_13	420 PARRAMATTA RD, STRATHFIELD NSW 2135	COM	70	70	70	70	70	70	0	0	0	0
245	NCA_13	33 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
246	NCA_12	40 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
247	NCA_12	40 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
248	NCA_12	21 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	57	70	58	61
249	NCA_12	12 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	56	69	57	60
250	NCA_13	UNIT 201 10-12 BURWOOD RD, BURWOOD NSW 2	RES	58	53	53	49	49	49	49	61	49	52
251	NCA_13	23 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
252	NCA_12	37 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	59	47	50
253	NCA_12	5 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	42	55	42	46
254	NCA_12	21 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	62	50	53
255	NCA_13	35 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
256	NCA_13	23 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
257	NCA_13	31 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	37	49	37	40
258	NCA_13	5A SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	43	56	44	47
259	NCA_13	37 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
260	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	0	0	0	0
261	NCA_13	35A BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
262	NCA_12	11 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
263	NCA_13	6/9 BURWOOD RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	52	65	52	56
264	NCA_12	9 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	63	50	54
265	NCA_13	32 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
266	NCA_12	14 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
267	NCA_12	2/10 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
268	NCA_13	46 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
269	NCA_12	4/2-4 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	62	49	53

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
270	NCA_12	4 DAVID ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
271	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
272	NCA_12	32/1 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	40	53	41	44
274	NCA_12	8 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	57	45	48
275	NCA_13	5 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	43	56	43	46
276	NCA_13	214 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0
277	NCA_12	32 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	47	59	47	50
278	NCA_12	4/43 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
279	NCA_13	30 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	31	44	31	35
280	NCA_12	15 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	51	64	51	54
281	NCA_13	10 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
283	NCA_12	7 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
285	NCA_13	605/11-13 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	50	63	51	54
286	NCA_13	4 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
287	NCA_12	13/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	63	51	54
289	NCA_12	42 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
290	NCA_12	2 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
291	NCA_12	8 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	65	78	65	68
292	NCA_12	71 PARRAMATTA RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0
293	NCA_13	29 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
294	NCA_12	46 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	58	46	49
295	NCA_12	5 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	62	50	53
296	NCA_12	12 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
297	NCA_12	27 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
298	NCA_13	UNIT 7 3 ARTHURSLEIGH ST, BURWOOD NSW 21	RES	58	53	53	49	49	49	0	0	0	0
299	NCA_12	3/18 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	56	44	47
300	NCA_12	1/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	56	43	46
301	NCA_13	8 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
302	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	45	58	45	48
303	NCA_13	7 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
304	NCA_13	34 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
305	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
306	NCA_13	3 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	56	69	56	59
307	NCA_13	24 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
308	NCA_13	38 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
309	NCA_13	28-32 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
310	NCA_12	7 MELBOURNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
311	NCA_12	41 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	56	44	47
312	NCA_13	21 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
313	NCA_12	42 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	47	60	47	51
314	NCA_13	9 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
315	NCA_13	6 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	59	47	50
316	NCA_12	36 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
317	NCA_12	8 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	56	44	47
318	NCA_13	27 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
319	NCA_13	20 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
320	NCA_13	360-370 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	50	63	50	53
321	NCA_13	2 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
322	NCA_12	1 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
323	NCA_12	14A BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	63	76	64	67

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
324	NCA_12	CONCORD OVAL 8 GIPPS ST, CONCORD NSW 213	REC/A	65	65	65	65	65	65	0	0	0	0
325	NCA_12	48 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
326	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	EDU	65	65	65	65	65	65	0	0	0	0
327	NCA_13	12 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
328	NCA_12	10/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	62	49	52
330	NCA_13	10 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	49	62	49	52
331	NCA_13	318 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	53	65	53	56
332	NCA_12	12 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
333	NCA_12	42 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
334	NCA_12	57 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
335	NCA_13	27 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	58	46	49
336	NCA_12	1 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
337	NCA_13	203/19 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	48	51
338	NCA_13	16 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
339	NCA_13	4 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	59	47	50
340	NCA_13	320-324 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	54	67	54	57
341	NCA_13	21 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
342	NCA_13	40 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
343	NCA_13	22 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
345	NCA_13	UNIT 1 23 SHAFTESBURY RD, BURWOOD NSW 21	RES	58	53	53	49	49	49	0	0	0	0
346	NCA_13	11 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	43	56	43	46
347	NCA_12	10/45A BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
348	NCA_13	30 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	29	42	29	32
350	NCA_13	4 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	43	56	43	47
351	NCA_12	52 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
352	NCA_13	35 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
353	NCA_12	2 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
354	NCA_12	57-59 PARRAMATTA RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	41	54	42	45
355	NCA_12	54 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	42	55	43	46
357	NCA_13	19 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
358	NCA_13	7 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	50	63	50	53
359	NCA_13	302-314 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	50	62	50	53
360	NCA_12	40 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
361	NCA_13	1 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	58	46	49
362	NCA_12	2/16 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	57	44	47
363	NCA_13	17/15 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	48	61	48	51
364	NCA_13	4 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	48	51
365	NCA_13	9 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	58	46	49
366	NCA_12	1/16 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	56	44	47
367	NCA_13	374-380 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	46	58	46	49
368	NCA_13	11 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
369	NCA_13	20 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	58	45	48
370	NCA_13	21 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
371	NCA_12	2A BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	65	78	66	69
372	NCA_12	19 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
374	NCA_13	5 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	38	51	38	42
375	NCA_13	2 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
376	NCA_12	12 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
377	NCA_12	27 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	52	64	52	55
378	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	0	0	0	0

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
379	NCA_13	23 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
381	NCA_12	5 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	59	47	50
382	NCA_12	8 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
383	NCA_13	10 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
384	NCA_13	6 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	56	69	56	59
385	NCA_13	25 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
386	NCA_13	13 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	47	50
387	NCA_13	21 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
389	NCA_13	28 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
390	NCA_12	50 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
392	NCA_13	18 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	35	48	36	39
394	NCA_12	1E BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	57	45	48
395	NCA_13	SHOP 1 52 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
396	NCA_13	UNIT 5 1A BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	59	47	50
398	NCA_12	17 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
399	NCA_12	1 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	63	50	53
400	NCA_12	7 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	46	49
401	NCA_13	7 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	38	50	38	41
403	NCA_13	23 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	48	51
404	NCA_12	8A ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
405	NCA_12	1/14 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	58	46	49
406	NCA_13	20 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
407	NCA_13	7 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	44	56	44	47
408	NCA_13	15 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
409	NCA_12	25 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	46	49
410	NCA_12	5/24 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	51	63	51	54
411	NCA_12	8P GIPPS ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0
412	NCA_13	29 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	40	52	40	43
414	NCA_12	13 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	52	65	53	56
415	NCA_12	1 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	61	49	52
416	NCA_13	9 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	44	56	44	47
417	NCA_12	8P GIPPS ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0
418	NCA_13	30 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
419	NCA_12	3/47 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
420	NCA_13	BUS DEPOT 282 PARRAMATTA RD, BURWOOD NSW	COM	70	70	70	70	70	70	0	0	0	0
421	NCA_13	34 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
422	NCA_13	18 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
423	NCA_12	41 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	46	49
424	NCA_13	39 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
425	NCA_13	388-390 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0
426	NCA_13	24 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	35	47	35	38
427	NCA_12	10 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	42	55	43	46
428	NCA_13	6 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	42	55	43	46
429	NCA_13	24 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
430	NCA_12	11 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
431	NCA_12	18 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
432	NCA_12	GARAGE 11/45 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
434	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	EDU	65	65	65	65	65	65	0	0	0	0
435	NCA_13	26C BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	34	46	34	37
436	NCA_13	1/4 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
437	NCA_13	46 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
438	NCA_13	1 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	59	46	49
439	NCA_13	23 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	40	52	40	43
440	NCA_13	6 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	59	47	50
441	NCA_12	7/29-45 PARRAMATTA RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	59	72	60	63
442	NCA_12	12 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
443	NCA_13	11 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	48	61	49	52
444	NCA_13	10 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
445	NCA_13	42 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
446	NCA_13	34 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
447	NCA_12	1 DAVID ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
448	NCA_13	31A NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
449	NCA_13	14 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	59	46	49
450	NCA_12	9 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	42	55	42	46
451	NCA_12	36A GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
452	NCA_13	26 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
453	NCA_12	33 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
454	NCA_12	31 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	63	50	54
455	NCA_12	8P GIPPS ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0
458	NCA_12	4 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
459	NCA_12	34 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	58	46	49
460	NCA_13	27 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	39	52	40	43
461	NCA_13	8 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
462	NCA_12	14 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	57	70	57	60
463	NCA_13	33 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
464	NCA_12	3 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	41	54	41	44
465	NCA_13	332-334 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	60	72	60	63
466	NCA_12	6 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
467	NCA_13	8 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	54	67	55	58
468	NCA_12	7 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
469	NCA_13	25 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	52	65	52	55
470	NCA_12	9 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
471	NCA_13	7/15 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	50	63	50	54
472	NCA_13	PARKVIEW GARDENS CARS 23 3-13 COMER ST,	RES	58	53	53	49	49	49	0	0	0	0
473	NCA_12	12 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	48	61	48	51
474	NCA_12	11 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
475	NCA_13	14 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
476	NCA_13	12 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	47	50
477	NCA_13	29 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
478	NCA_13	UNIT 8 3 ARTHURSLEIGH ST, BURWOOD NSW 21	RES	58	53	53	49	49	49	0	0	0	0
479	NCA_13	31 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
480	NCA_13	38 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
481	NCA_13	25 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
482	NCA_13	14 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	48	60	48	51
483	NCA_12	CONCORD OVAL 8 GIPPS ST, CONCORD NSW 213	REC/A	65	65	65	65	65	65	0	0	0	0
484	NCA_12	3 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	47	60	48	51
485	NCA_13	41 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
486	NCA_13	8 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
487	NCA_13	1 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
488	NCA_13	26 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
489	NCA_13	4 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	50	63	50	53
490	NCA_13	3 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
492	NCA_13	UNIT 1 24 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	42	55	43	46
493	NCA_12	1A LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	56	44	47
494	NCA_13	36 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
495	NCA_12	29 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	52	64	52	55
496	NCA_12	2A LANSLOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	46	49
498	NCA_12	44 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
499	NCA_13	23 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	50	63	50	53
500	NCA_12	2/16 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	55	43	46
501	NCA_13	18 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
502	NCA_12	5 MELBOURNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
503	NCA_13	42 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
504	NCA_12	12A BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	63	76	64	67
505	NCA_13	23A LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
506	NCA_13	5 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	53	66	54	57
507	NCA_12	48 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	58	46	49
508	NCA_12	14 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
510	NCA_13	5 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
511	NCA_13	24 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
512	NCA_12	43 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
513	NCA_13	19 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
514	NCA_13	13 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	42	55	43	46
515	NCA_13	16 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	58	46	49
516	NCA_12	3 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
517	NCA_12	49A BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
518	NCA_13	22 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
519	NCA_12	6 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
520	NCA_13	11 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	48	51
521	NCA_13	10 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
522	NCA_12	29 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	59	47	50
524	NCA_13	45/316 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	52	65	52	55
525	NCA_12	19 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	51	64	52	55
526	NCA_12	3 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	62	50	53
527	NCA_12	30 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	42	55	43	46
528	NCA_13	10 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	47	51
529	NCA_13	31 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
531	NCA_13	27 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
533	NCA_13	15 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	42	55	43	46
534	NCA_13	17 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
535	NCA_12	29A BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	63	50	54
536	NCA_13	UNIT 2 6 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
537	NCA_13	5 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	50	63	51	54
538	NCA_13	15 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	57	45	48
539	NCA_13	19 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	50	62	50	53
540	NCA_13	32 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
541	NCA_12	6 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	62	49	52
542	NCA_13	25 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
543	NCA_13	336-336A PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	61	73	61	64
544	NCA_12	28 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	62	75	62	65

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
545	NCA_12	11 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	57	45	48
546	NCA_13	36-40 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	28	41	29	32
547	NCA_13	25 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	35	47	35	38
548	NCA_12	9 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	45	48
549	NCA_13	28 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
550	NCA_13	320 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	53	66	54	57
551	NCA_12	15 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	33	46	34	37
552	NCA_12	3 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
553	NCA_13	5 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
554	NCA_13	3 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
555	NCA_13	27A NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	58	46	49
556	NCA_12	8/50 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	59	46	49
557	NCA_13	17 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	43	56	43	46
558	NCA_12	UNIT 2 3 MELBOURNE ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0
559	NCA_13	19 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	51	64	52	55
560	NCA_12	12A BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
561	NCA_12	3B LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	58	46	49
562	NCA_13	14 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	47	50
563	NCA_12	8 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
564	NCA_12	1C GIPPS ST, CONCORD NSW 2137	REC/A	65	65	65	65	65	65	0	0	0	0
565	NCA_13	25 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
566	NCA_12	15/38 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	58	71	58	61
567	NCA_13	13 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	43	56	43	47
569	NCA_13	2/15 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	30	43	31	34
570	NCA_12	38 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	57	45	48
571	NCA_12	14 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
573	NCA_12	6/6 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	54	67	54	58
575	NCA_13	31A SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
576	NCA_13	18 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	47	50
577	NCA_13	8 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
578	NCA_12	5 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	58	45	49
579	NCA_12	38 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
580	NCA_13	31 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
581	NCA_12	5 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
582	NCA_13	318 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	53	66	54	57
583	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	EDU	65	65	65	65	65	65	0	0	0	0
584	NCA_13	11 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
585	NCA_13	10 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
586	NCA_12	4 PARK AV, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
587	NCA_13	7 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
589	NCA_13	10 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
590	NCA_12	33 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
591	NCA_12	33 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	62	50	53
592	NCA_12	44 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	46	59	47	50
593	NCA_13	7 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
594	NCA_13	21 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	43	56	44	47
595	NCA_13	1A SHAFTESBURY RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	48	61	49	52
596	NCA_13	12 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	52	65	52	55
597	NCA_12	10 ADA ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
598	NCA_13	12 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	LAeq, 15min	Lmax	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
599	NCA_13	7A SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	41	54	41	44
601	NCA_12	15 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	45	57	45	48
602	NCA_13	4 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
603	NCA_13	8 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
604	NCA_13	240 PARRAMATTA RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	0	0	0	0
605	NCA_13	13 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
606	NCA_13	6 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
607	NCA_13	10 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	54	66	54	57
608	NCA_13	10 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	49	62	49	52
609	NCA_12	29/1 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	55	43	46
610	NCA_12	22 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	41	54	42	45
611	NCA_12	18 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
612	NCA_12	17 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	31	43	31	34
613	NCA_12	17 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	53	66	53	56
614	NCA_12	13 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
615	NCA_13	45 PARK RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
616	NCA_12	34 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	44	57	44	47
617	NCA_13	5 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	44	57	44	47
618	NCA_13	9 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	58	46	49
619	NCA_12	15 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
620	NCA_12	12 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
621	NCA_12	5 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	55	43	46
622	NCA_13	26 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
623	NCA_12	1/18 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	55	43	46
624	NCA_13	41 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
625	NCA_12	1 FORSTER ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
626	NCA_12	29 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
627	NCA_13	9 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	41	54	41	44
628	NCA_12	65 PARRAMATTA RD, CONCORD NSW 2137	COM	70	70	70	70	70	70	0	0	0	0
629	NCA_13	10 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
630	NCA_12	1A BROUGHTON ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	41	54	42	45
631	NCA_12	4 DAVID ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
632	NCA_13	46/27-29 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	59	47	50
633	NCA_12	8 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
634	NCA_13	24 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
635	NCA_13	35 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
637	NCA_12	11 BURTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	51	64	52	55
638	NCA_13	9 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	49	62	49	52
639	NCA_12	2 MORETON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	50	63	51	54
640	NCA_13	21 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	47	60	48	51
641	NCA_12	44 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
642	NCA_13	25 ARCHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
643	NCA_13	27A SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
644	NCA_13	13 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	48	61	49	52
645	NCA_13	21 ESHER ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	44	57	44	48
646	NCA_13	16 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	39	51	39	42
647	NCA_12	6 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	56	44	47
648	NCA_13	1 BURWOOD RD, BURWOOD NSW 2134	COM	70	70	70	70	70	70	58	71	59	62
649	NCA_12	32 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	43	56	44	47
652	NCA_13	19 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	42	55	43	46

Demobilisation

Receivers			Land use	NML						Demobilisation			
				Standard			Weekend			Sleep disturbance		10a	10b
Ref	NCA	Address		hours	day	Evening	Night	L _{Aeq} , 15min	L _{max}	Dismantling gantry crane	Upstand Demolition	Bridge Demolition	Shed/Offices dismantling
653	NCA_13	14A NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	45	57	45	48
654	NCA_13	25 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	50	63	50	54
655	NCA_13	1 ARTHURSLEIGH ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
656	NCA_13	21 BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	35	48	36	39
657	NCA_13	37 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
659	NCA_12	10 LOFTUS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	40	53	40	43
660	NCA_12	15 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
661	NCA_13	UNIT 1 1A BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
662	NCA_12	46 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
663	NCA_12	52 GIPPS ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
664	NCA_13	20 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
665	NCA_12	3 JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
666	NCA_13	21 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
667	NCA_13	10 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
668	NCA_12	28 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	49	62	49	53
669	NCA_12	1A BROUGHTON ST, CONCORD NSW 2137	COM	70	70	70	70	70	70	41	53	41	44
670	NCA_13	28 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	30	43	30	34
671	NCA_13	9 LUKE AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
672	NCA_12	56-60 BURTON ST, CONCORD NSW 2137	PoW	65	65	65	65	65	65	0	0	0	0
673	NCA_12	36 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	40	53	40	43
674	NCA_13	17 MILTON ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	59	47	50
675	NCA_12	29 BROUGHTON ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
676	NCA_13	15/10-12 GRANTHAM ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
677	NCA_13	10 SHAFTESBURY RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	42	55	43	46
678	NCA_12	16 LANSDOWNE ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
679	NCA_13	22 BRITANNIA AV, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
680	NCA_13	9/28-30A BURWOOD RD, BURWOOD NSW 2134	RES	58	53	53	49	49	49	42	55	42	45
681	NCA_12	1A JOHN ST, CONCORD NSW 2137	RES	53	48	48	47	47	47	0	0	0	0
682	NCA_13	25 NEICH PDE, BURWOOD NSW 2134	RES	58	53	53	49	49	49	46	59	47	50
683	NCA_13	3 NEW ST, BURWOOD NSW 2134	RES	58	53	53	49	49	49	0	0	0	0
685	NCA_12	18 BURWOOD RD, CONCORD NSW 2137	RES	53	48	48	47	47	47	65	78	66	69