BESIX Watpac

Precinct Village and Carpark

Noise Monitoring Report 2
September 2024 – November 2024

30 November 2024

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Precinct Village and Carpark

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1. Introduction

1.1 Project Scope

BESIX Watpac has been appointed by Venues NSW as Principal Contractor for the Precinct Village and Car Park (PV&C) which represents the next stage of development. The PV&C was approved via modification to SSD 9835 on 18 July 2022 by the Minister for Planning and Public Spaces' delegate. In approving the modification, approval was granted for:

- Up to a maximum of 1,500 space multilevel carpark below ground level with the following access arrangements:
  - 1 x egress point onto Moore Park Road to be used on event days only;
  - 1 x two-lane access point from Driver Ave to be used on event and non-event days; and
  - dedicated area within the car park for operation/servicing vehicles.
- Reconfiguration of the currently approved drop off requirements for the elderly and mobility impaired;
- Free flow level pedestrian access to and from the SFS concourse from Driver Ave and Moore Park Road;
- Electric car charging provision;
- A versatile and community public domain, comprising:
  - provision for 4 x north-south orientated tennis courts on non-event days with the potential to become an event platform on event days;
  - children's playground;
  - 1,500 m2 cafe / retail / restaurants with associated amenities in a single storey pavilion (6 metre) low level;
  - customer service office and ticket window; and
  - vertical transport provisions
- Utilities provision

1.2 Reporting Requirements

Consent Condition	Requirement	Reference
C17	The Applicant must undertake short term attended noise monitoring for all 'High Noise Impact Works' that predicted to exceed the NMLs, identified in the CNVMP (B28). and any other works that generate noise exceeding 75dB(A) LAeq (15mins) and a noise monitoring report must be produced and submitted to the Planning Secretary every three months following commencement of the construction to verify that:	Section 2
C17(a)	(a) construction noise levels do not exceed the recommended NMLs identified in the Stage 2 SSDA – Noise and Vibration Assessment prepared by ARUP dated 30 August 2019; and	Section 2 Section 3
C17(b)	(b) Noise management and mitigation measures have been implemented where the NMLs are exceeded.	Section 3

1.3 Surrounding Land Use

Residential zones are located to the north and north-east in Paddington, east and south-east in Centennial Park, as well as west along South Dowling Street in Surry Hills and Redfern. Non-residential premises also surround the site, with scattered childcare, places of worship, educational facilities and Paddington Town Hall located in Paddington and Centennial Park, high schools located across Anzac Parade and various recreation areas nearby, shown in Figure 1.

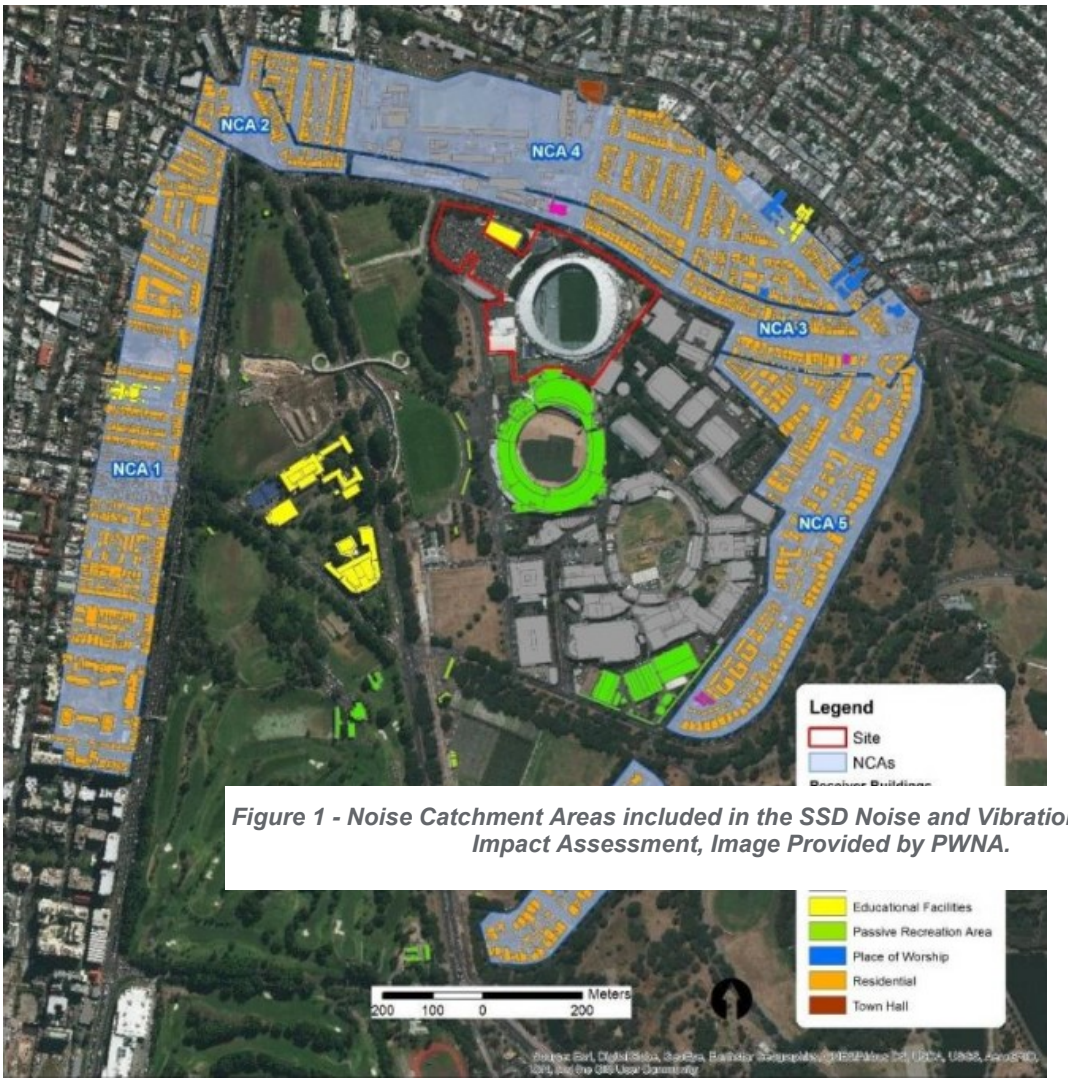


Figure 1 - Noise Catchment Areas included in the SSD Noise and Vibration Impact Assessment, Image Provided by PWNA.

Residential receivers located within similar environments and with comparable relationship to surrounding noise sources have been grouped into Noise Catchment Areas (NCAs), also shown in Table 1.

Table 1 - Noise Catch Areas (NCAs)

NCA	Description	NSW NPfI Area Classification
NCA 1	Surry Hills and Redfern (along South Dowling Street)	Urban Area

NCA 2	Surry Hills (intersection between Anzac Parade and Flinders Street)	Urban Area
NCA 3	Paddington, Moore Park Road	Urban Area
NCA 4	Paddington Local Roads	Urban Area
NCA 5	Centennial Park Land Road and Local Roads	Suburban Area
NCA 6	Centennial Park Roberston Road and Local Roads	Suburban Area

1.4 Noise Monitoring Locations

In accordance with Section 6 of the Construction Noise and Vibration Management Plan. Short term attended noise monitoring and unattended noise measurements should be conducted over consecutive 15 minutes periods at three locations, where real time monitors are also located.

1. Kira Childcare
2. ARU/UTS
3. NRL Building

Figure 2 - Noise Monitoring Locations

The attended noise monitoring of excavation and construction activities will be undertaken at 3 monthly periods in accordance with the requirements of C17 of the SSD and at the commence of any rock breaking, piling or sawing on the site. Should any complaints be received, attended noise monitoring shall be conducted.

2. Noise Monitoring

2.1 Real time monitoring

Real time monitors are located in the following locations:

1. Kira Childcare
2. ARU/UTS
3. NRL Building

The adoption criteria as per the conditions of the Development Consent below:

C7 All works that generate noise exceeding 75dB(A) LAeq (15mins) are subject to the intra-day respite periods, as approved by the Planning Secretary in the CNVMP in condition B28.

B28(e)(iv) (iv) the following intra-day respite periods (as defined by ICNG) for works exceeding 75dB(A) LAeq (15 mins), unless otherwise agreed with the identified sensitive receivers such as UTS, Kira Childcare Centre and NRL and evidence of the agreement provided to the Planning Secretary, prior to the commencement of the works:

- *in continuous blocks not exceeding 3 hours each with one hour of respite every three hours block;*
- *scheduling of works outside of the examination time for educational establishments; and*
- *noise intrusive works commencing after 8am and be undertaken within the approved standard construction hours.*

2.2 Works Being Undertaken

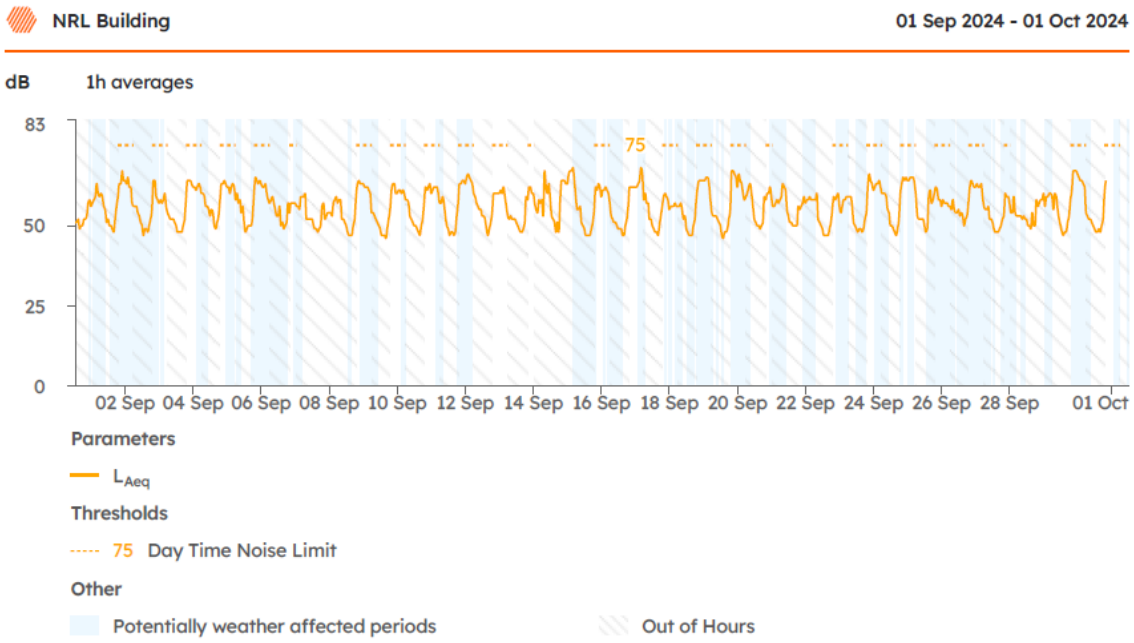
Work during the period consisted of:

- Jet grout piling
- Fundex rig piling
- Bulk excavation
- FRP capping beam
- Anchoring

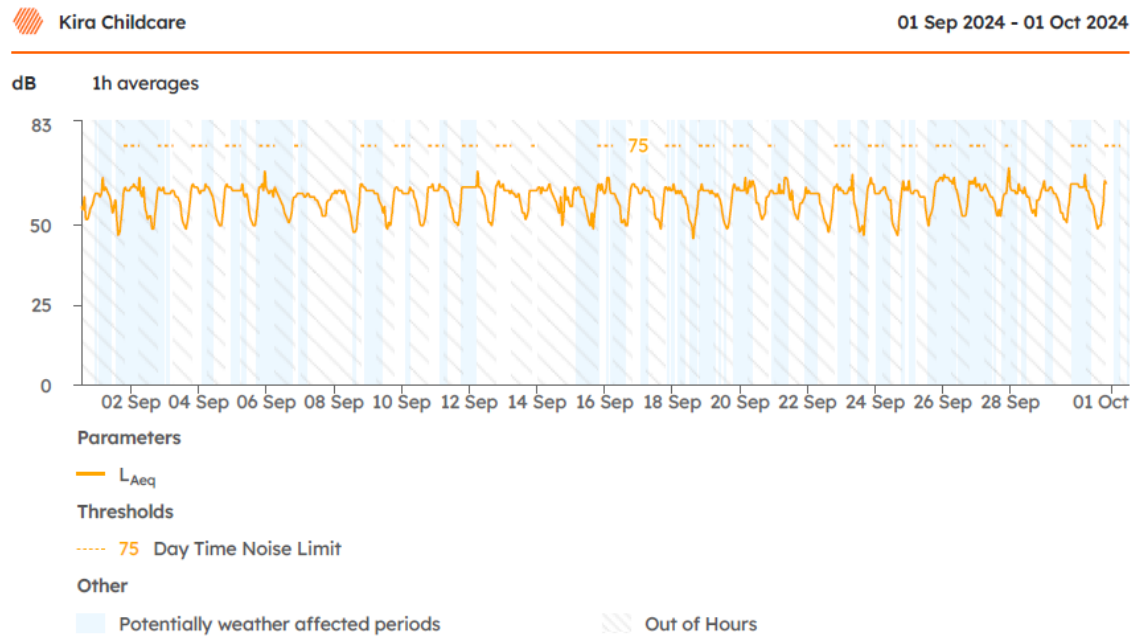
2.3 Results

September 2024

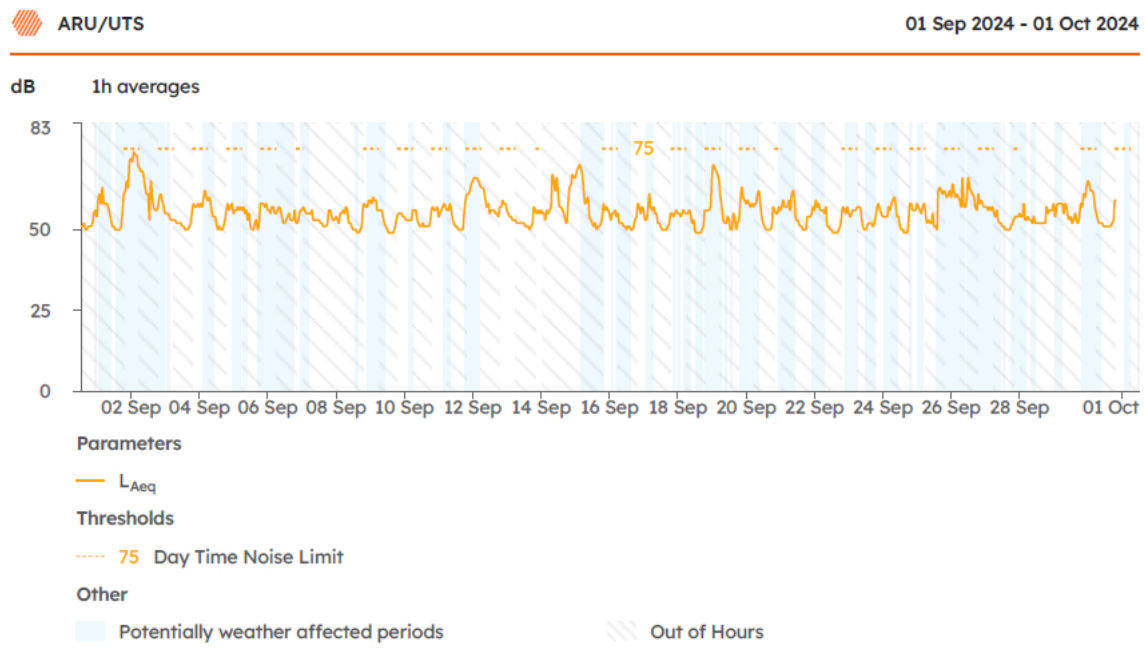
NRL building



Kira Childcare

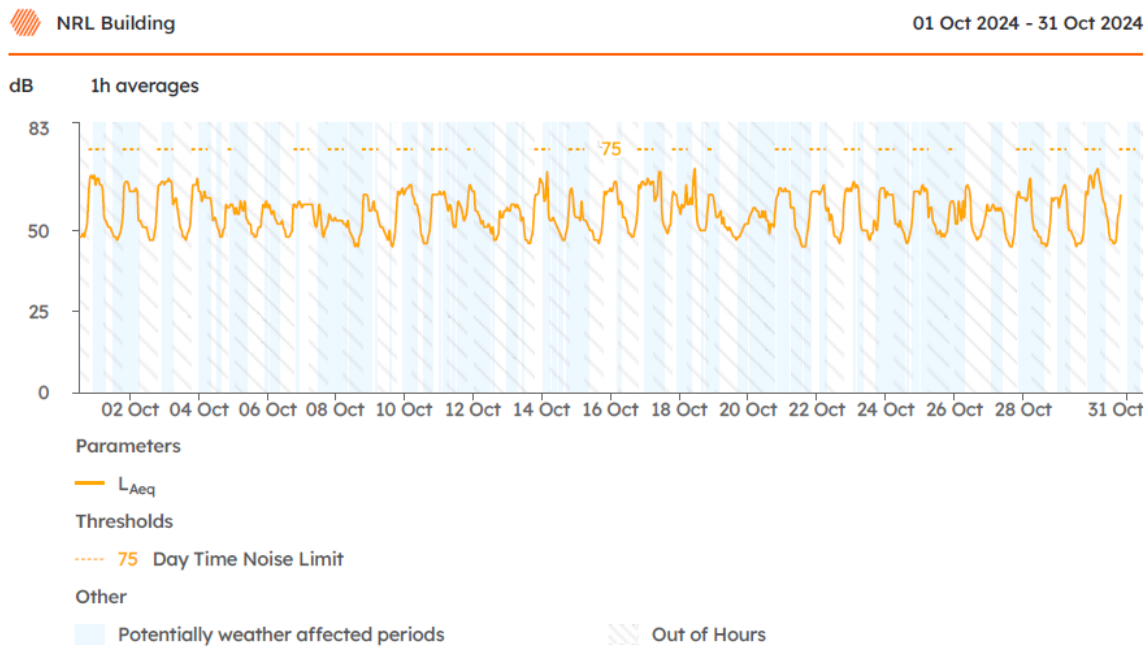


ARU/UTS

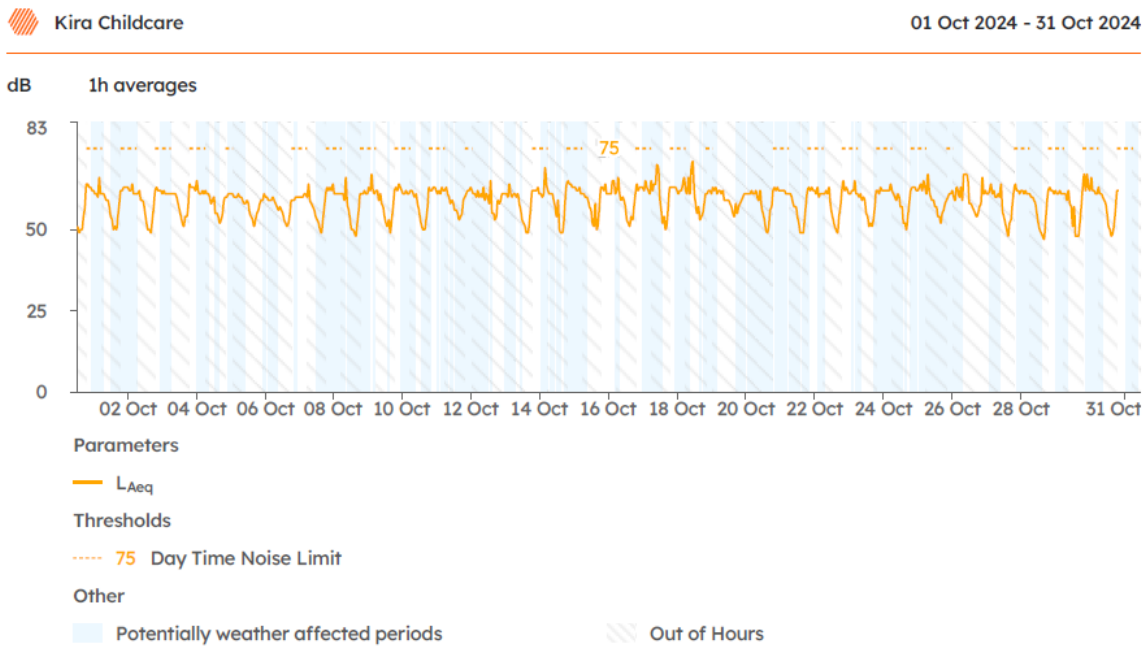


October 2024

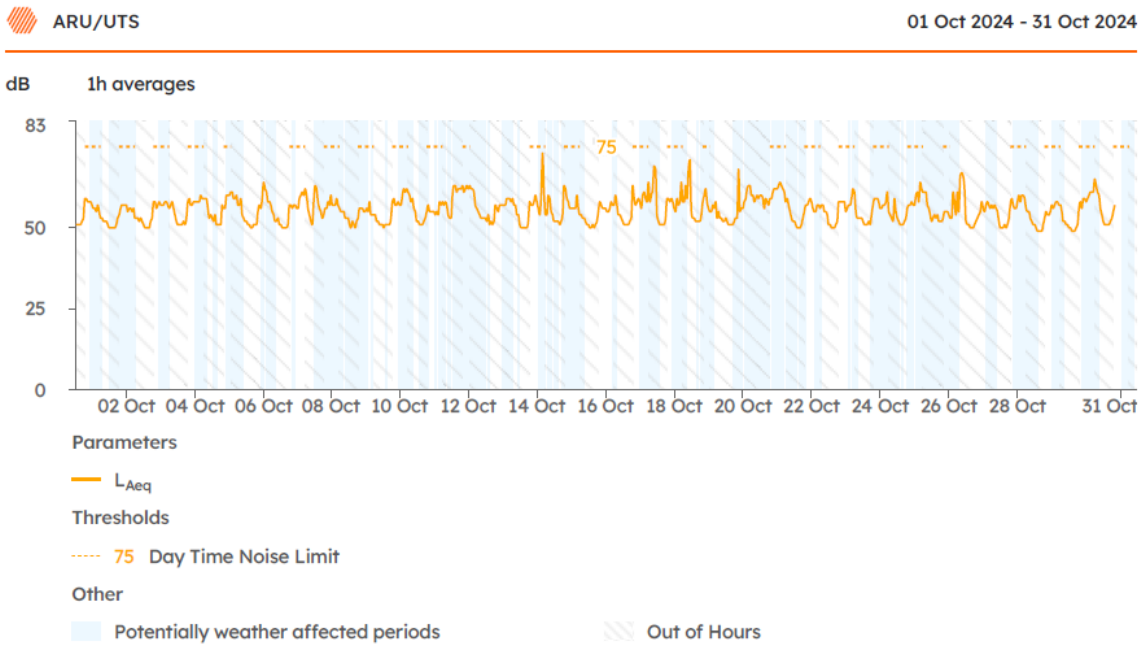
NRL building



Kira Childcare

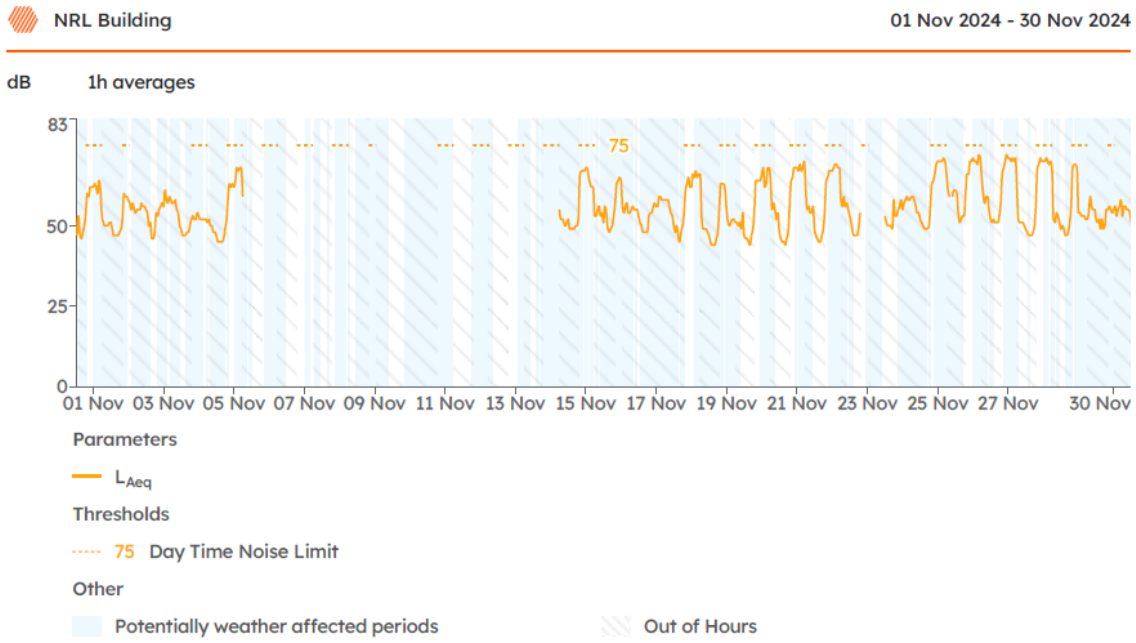


ARU/UTS

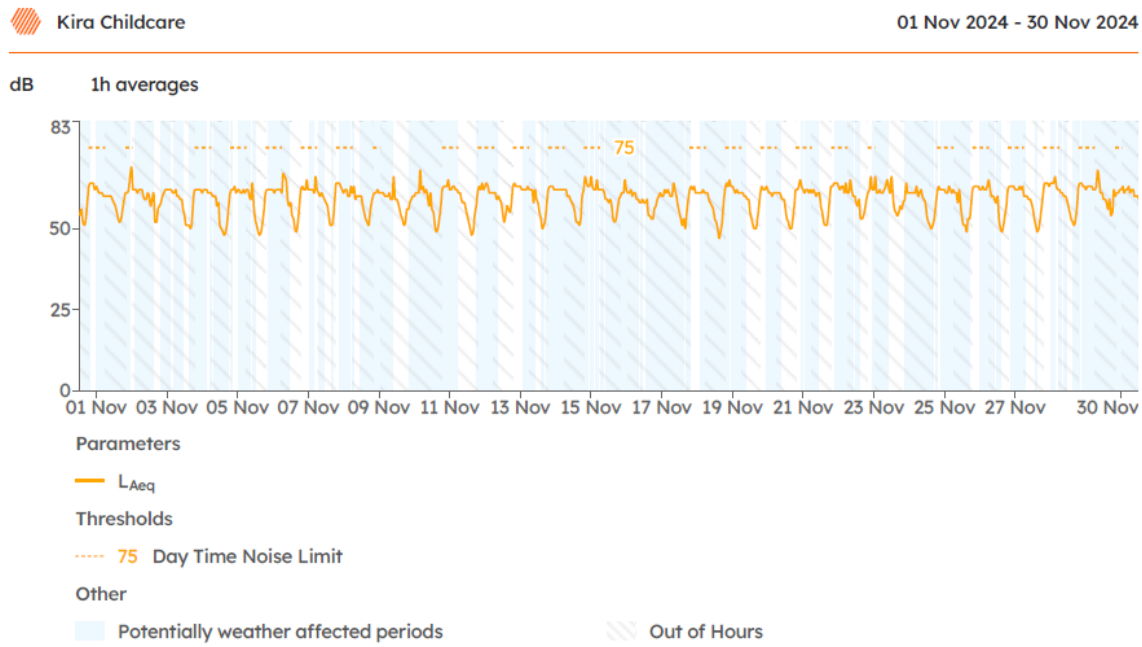


November 2024

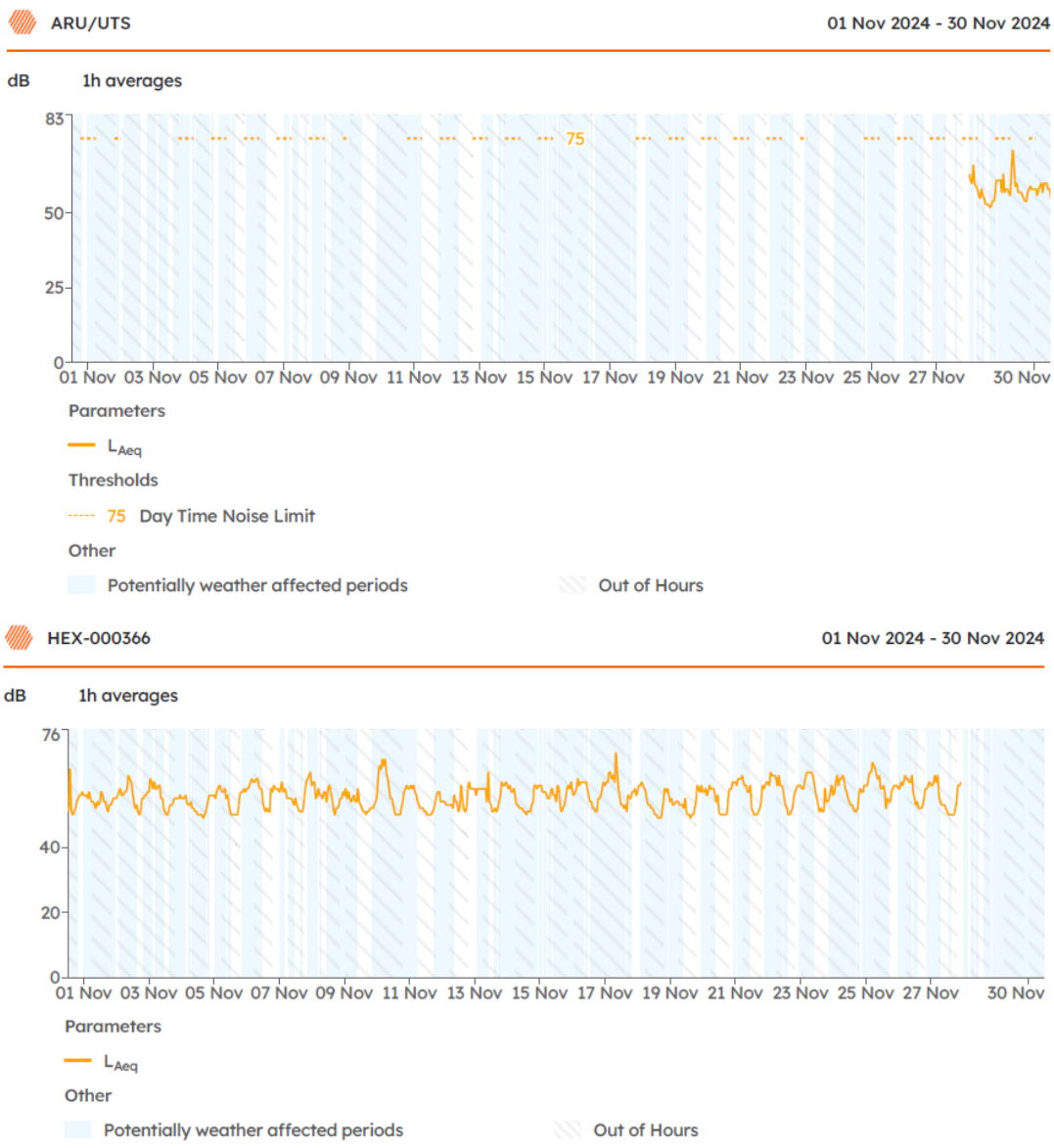
NRL building



Kira Childcare



ARU/UTS



2.4 Discussion

- During the month of November the NRL Building had a loss of power from the 6th November to 14th November, during this period attended monitoring occurred confirming compliance with the CNVMP. Additionally, no complaints were raised by the residence during this period.
- During the month of November there was a malfunction of the ARU/UTS Building Acoustic Monitor which required units to be changed, this is why there are two images associated with the ARU/UTS Building in the month of November.
- Works were all compliant with criteria. There were no exceedances of the stop work criteria.
- Attended monitoring during this period also demonstrated that construction works were largely inaudible to nearby residential receivers due to road noise. Attended results did not exceed the predicted levels of the CNVMP. Exceedances of the NML are considered compliant as in all instances these were caused by road vehicles, aeroplanes & wildlife, as the primary sources of noise.

2.5 Attended Monitoring

E.g. Attended monitoring was carried out at the 3 locations as below.

Date	Time	Location	Predicted LAeq(15)	Result LFmax(15)	Result LAeq(15)	Monitoring Trigger	Comment
20/09/2024	9:39 AM	ARU/UTS	75	73	66.34	N/A	Compliant
20/09/2024	10:18 AM	252 MP Rd	75	80.1	62.96	N/A	Compliant
20/09/2024	10:40 AM	NRL	75	79.1	68.2	N/A	Compliant
20/09/2024	9:56 AM	Kira CC	75	75.6	60.34	N/A	Compliant
30/10/2024	10:35 AM	ARU/UTS	75	74.9	69.16	N/A	Compliant
30/10/2024	11:15 AM	252 MP Rd	75	72	63.3	N/A	Compliant
30/10/2024	11:35AM	NRL	75	74.8	66.5	N/A	Compliant
30/10/2024	10:55 AM	Kira CC	75	78.3	66.41	N/A	Compliant
25/11/2024	10:40 AM	ARU/UTS	75	79.1	72.9	N/A	Compliant
25/11/2024	11:00 AM	252 MP Rd	75	84.4	62.3	N/A	Compliant
25/11/2024	11:42 AM	NRL	75	73.7	65.9	N/A	Compliant
25/11/2024	11:20 AM	Kira CC	75	78.4	68.6	N/A	Compliant

3. Mitigation Measures

During construction there was no exceedances of the NMLs and were still under the predicted levels. It can be confirmed that the mitigations were in place with Section 6 of the Construction Noise and Vibration Management Plan, in particular:

- Respite periods (3 on and 1 off) and no high impact works prior to 8am
- Class A hoarding installed on Eastern side from ARU/UTS around to the NRL building
- Noise monitors installed on ARU/UTS, NRL and Kira Child Care, with set triggers in accordance with Noise and vibration management plan.

No noise complaints were received in relation to the construction works.

4. Noise Monitoring Reports

4.1 September 2024 - UTS

Section 1: Inspection Details			Form Number: 1
Project	N228 Precinct Village and Carpark, Moore Park		
Date	20/09/2024	Time: 9:39 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	UTS		

Section 2: Conditions		
Wind Speed* (KM/h)	8.23	**Wind Direction: WSW**
Temperature (c)	20	**Cloud Cover (%):**
Rainfall* (mm)	0	**General Conditions: Clear sky**
Site Characteristics	Civil works - Jet grout Piles - Bulk excavation	

**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date: 20/09/2024**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	-
LAeq(dBA)	66.34	-
LFmax(dBA)	73	-
Item	**Comments**	
What works are occurring?	Jet grout piling Bulk excavation of West car park	
Is construction noise audible?	No	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	

Other Comments and Observations

Minute	Minute by Minute dB	Observation
1	**71**	**Motor vehicles pass by**
2	**65**	
3	**62.1**	
4	**63.4**	
5	**67.1**	

6	65.9	
7	67.2	
8	68	Motor vehicle pass by
9	66.6	
10	67.2	
11	66.1	
12	65.9	
13	68.6	
14	65.7	
15	65.3	

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.2 September 2024 – 252 Moore Park Road

Section 1: Inspection Details			**Form Number: 1**
Project	N228 Precinct Village and Carpark, Moore Park		
Date	20/09/2024	Time: 10:18 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	252 Moore Park Road		

Section 2: Conditions		
Wind Speed* (km/h)	8.23	**Wind Direction: WSW**
Temperature (c)	20	**Cloud Cover (%): 0**
Rainfall* (mm)	0	**General Conditions: Clear sky**
Site Characteristics	- Jet grout piling - Bulk excavation	
**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*		

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date:**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	-
LAeq(dBA)	62.96	-
LFmax(dBA)	80.1	-
Item	**Comments**	
What works are occurring?	- Jet grout piling - Bulk excavation	
Is construction noise audible?	No	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	**63.7**	
2	**68.3**	
3	**63.2**	
4	**60.4**	
5	**68.9**	**Motor vehicles pass by**
6	**58**	

7	**62.7**	
8	**55.6**	
9	**62.4**	
10	**61.5**	
11	**60**	
12	**62.8**	
13	**58.5**	
14	**72.8**	**Motor vehicles pass by**
15	**65.6**	

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.3 September 2024 - NRL

Section 1: Inspection Details			**Form Number: 1**
Project	N228 Precinct Village and Carpark, Moore Park		
Date	20/09/2024	Time: 10:36 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	NRL		

Section 2: Conditions		
Wind Speed* (km/h)	8.23	**Wind Direction: WSW**
Temperature (c)	20	**Cloud Cover (%):**
Rainfall* (mm)	0	**General Conditions: Clear sky**
Site Characteristics	Civil works - Jet grout piling - Bulk excavation	
**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*		

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date:**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	-
LAeq(dBA)	68.2	-
LFmax(dBA)	79.1	-
Item	**Comments**	
What works are occurring?	Jet grout piling Bulk excavation	
Is construction noise audible?	No	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	64	
2	75.9	Motor vehicles pass by
3	72	
4	63.5	
5	65.6	
6	65.7	

7	66	
8	70.1	Motor vehicles pass by
9	70.5	Motor vehicles pass by
10	70.3	Motor vehicles pass by
11	70.8	Motor vehicles pass by
12	64.1	
13	64.4	
14	75.6	Motor vehicles pass by
15	64.6	

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.4 September 2024 – Kira Child Care

Section 1: Inspection Details			**Form Number: 1**
Project	N228 Precinct Village and Carpark, Moore Park		
Date	20/09/2024	Time: 9:56 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	Kira Child Care		

Section 2: Conditions		
Wind Speed* (km/h)	8.23	**Wind Direction: WSW**
Temperature (c)	20	**Cloud Cover (%):**
Rainfall* (mm)	0	**General Conditions: Clear sky**
Site Characteristics	Civil works - Jet grout piling - Bulk excavation	

**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date:**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	-
LAeq(dBA)	60.34	-
LFmax(dBA)	75.6	-
Item	**Comments**	
What works are occurring?	Jet grout piling Bulk excavation	
Is construction noise audible?	No	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	**58.4**	
2	**60.5**	
3	**57.4**	
4	**60.8**	
5	**60.1**	
6	**61.7**	

7	**64**
8	**63.2**
9	**58.1**
10	**61.1**
11	**62**
12	**58.3**
13	**60.7**
14	**57**
15	**61.8**

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.5 October 2024 - UTS

Section 1: Inspection Details			Form Number: 1
Project	N228 Precinct Village and Carpark, Moore Park		
Date	18/10/2024	Time: 10:35	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	ARU/UTS		

Section 2: Conditions		
Wind Speed* (km/h)	16.7	**Wind Direction: NE**
Temperature (c)	23	**Cloud Cover (%):12**
Rainfall* (mm)	0	**General Conditions: Clear skies**
Site Characteristics	- FRP capping beam installation - Bulk excavation & haul out west car park - Piling in east car park	
**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*		

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date:**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	
LAeq(dBA)	69.16	
LFmax(dBA)	74.9	
Item	**Comments**	
What works are occurring?	- FRP capping beam installation - Bulk excavation & haul out west car park - Piling in east car park	
Is construction noise audible?	Yes	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	**64.6**	
2	**70.2**	
3	**69.5**	
4	**62.8**	
5	**71.1**	

6	**72**
7	**65.8**
8	**71.5**
9	**66.9**
10	**67.4**
11	**73.2**
12	**67.8**
13	**74.5**
14	**70**
15	**70.1**

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.6 October 2024 – 252 Moore Park Road

Section 1: Inspection Details			Form Number: 1
Project	N228 Precinct Village and Carpark, Moore Park		
Date	18/10/2024	Time: 11:15 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	252 Moore Park Rd		

Section 2: Conditions		
Wind Speed* (km/h)	16.7	**Wind Direction: NE**
Temperature (c)	23	**Cloud Cover (%): 12**
Rainfall* (mm)	0	**General Conditions: Clear skies**
Site Characteristics	- FRP capping beam installation - Bulk excavation & haul out west car park - Piling in east car park	
**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*		

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date:**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	
LAeq(dBA)	63.3	
LFmax(dBA)	72	
Item	**Comments**	
What works are occurring?	- FRP capping beam installation - Bulk excavation & haul out west car park - Piling in east car park	
Is construction noise audible?	No	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	**61.3**	
2	**62.9**	
3	**64.5**	
4	**67.6**	**Truck pass by**

5	**57.8**	
6	**69.6**	
7	**57.7**	
8	**63.6**	
9	**62.8**	
10	**56.5**	
11	**66.5**	
12	**67.4**	
13	**62.2**	
14	**60.6**	
15	**68.8**	**Truck pass by**

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.7 October 2024 - NRL

Section 1: Inspection Details			Form Number: 1
Project	N228 Precinct Village and Carpark, Moore Park		
Date	18/10/2024	Time: 11:35 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	NRL		

Section 2: Conditions		
Wind Speed* (km/h)	16.7	**Wind Direction: NE**
Temperature (c)	23	**Cloud Cover (%):12**
Rainfall* (mm)	0	**General Conditions: Clear skies**
Site Characteristics	- FRP capping beam installation - Bulk excavation & haul out west car park - Piling in east car park	
**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*		

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date:**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	
LAeq(dBA)	66.5	
LFmax(dBA)	74.8	
Item	**Comments**	
What works are occurring?	- FRP capping beam installation - Bulk excavation & haul out west car park - Piling in east car park	
Is construction noise audible?	Yes	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	**65**	
2	**66.9**	
3	**60.9**	
4	**67.1**	
5	**62.5**	

6	**65.4**	
7	**62.6**	
8	**70.9**	**Cars pass by**
9	**64.4**	
10	**66.3**	
11	**73.1**	
12	**67.6**	
13	**71.5**	**Trucks & cars passing by**
14	**71.6**	**Motorbike stopped nearby**
15	**62**	

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.8 October 2024 – Kira Childcare

Section 1: Inspection Details			Form Number: 1
Project	N228 Precinct Village and Carpark, Moore Park		
Date	18/10/2024	Time: 10:55 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	Kira Childcare		

Section 2: Conditions		
Wind Speed* (km/h)	16.7	**Wind Direction: NE**
Temperature (c)	23	**Cloud Cover (%): 12**
Rainfall* (mm)	0	**General Conditions: Partly cloudy**
Site Characteristics	- FRP capping beam installation - Bulk excavation & haul out west car park - Piling in east car park	
**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*		

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date:**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	
LAeq(dBA)	66.41	
LFmax(dBA)	78.3	
Item	**Comments**	
What works are occurring?	- FRP capping beam installation - Bulk excavation & haul out west car park - Piling in east car park	
Is construction noise audible?	No	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	**69.8**	**Trucks & cars pass by**
2	**62.7**	
3	**65.1**	
4	**70.2**	**Trucks & cars pass by**

5	73.8	Trucks & cars pass by
6	66	
7	65.6	
8	63.1	
9	64.5	
10	65.1	
11	67.7	
12	64.9	
13	63.8	
14	65	
15	68.9	

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.9 November 2024 – UTS

Section 1: Inspection Details			Form Number: 1
Project	N228 Precinct Village and Carpark, Moore Park		
Date	25/11/2024	Time: 10:40 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	UTS		

Section 2: Conditions		
Wind Speed* (km/h)	16	**Wind Direction: N**
Temperature (c)	23	**Cloud Cover (%):**
Rainfall* (mm)	0	**General Conditions: Clear skies**
Site Characteristics	- Core hole drilling - Bulk excavation - Piling in east	

**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date:**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	
LAeq(dBA)	72.9	
LFmax(dBA)	79.1	
Item	**Comments**	
What works are occurring?	- Core hole drilling - Bulk excavation - Piling in east	
Is construction noise audible?	Yes	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	**71.3**	**Truck pass by**
2	**69.8**	
3	**67.4**	
4	**73.5**	**Heavy rock breaking**

5	**69.5**	
6	**73.1**	
7	**72.6**	
8	**68.9**	
9	**68.5**	
10	**74.1**	
11	**71.8**	
12	**76**	
13	**73.4**	
14	**69.7**	
15	**74.4**	**Truck pass by & rock breaking**

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.10 November 2024 – 252 Moore Park Road

Section 1: Inspection Details			**Form Number: 1**
Project	N228 Precinct Village and Carpark, Moore Park		
Date	25/11/2024	Time: 11:00 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	252 Moore Park Rd		

Section 2: Conditions			
Wind Speed* (km/h)	16	**Wind Direction: N**	
Temperature (c)	23	**Cloud Cover (%):**	-
Rainfall* (mm)	0	**General Conditions: Clear skies**	
Site Characteristics	- Core hole drilling - Bulk excavation - Piling in east		
**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*			

Section 3: Monitoring Equipment			
Noise Monitor	Protech QM 1589	**Calibration Date:**	
Calibrator	ACU-VIB Electronics	**Calibration Date:**	
Field Calibration Before	-	**Field Calibration After: -**	

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	
LAeq(dBA)	62.3	
LFmax(dBA)	84.4	
Item	**Comments**	
What works are occurring?	- Core hole drilling - Bulk excavation - Piling in east	
Is construction noise audible?	Yes	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	**60.2**	
2	**66.9**	
3	**66.1**	
4	**70.8**	**Truck pass by**

5	68.7	
6	71.5	Truck pass by
7	61.2	
8	63.5	
9	66.6	
10	64.8	
11	67.1	
12	60.5	
13	54.2	
14	66.3	
15	65.4	

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.11 November 2024 – NRL

Section 1: Inspection Details			Form Number: 1
Project	N228 Precinct Village and Carpark, Moore Park		
Date	25/11/2024	Time: 11:42 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	NRL building		

Section 2: Conditions		
Wind Speed* (km/h)	16	**Wind Direction: N**
Temperature (c)	23	**Cloud Cover (%):**
Rainfall* (mm)	0	**General Conditions: Clear skies**
Site Characteristics	- Core hole drilling - Bulk excavation - Piling in east	
**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*		

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date:**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	
LAeq(dBA)	65.9	
LFmax(dBA)	73.7	
Item	**Comments**	
What works are occurring?	- Core hole drilling - Bulk excavation - Piling in east	
Is construction noise audible?	Yes	
Is extraneous noise present during measurement?	Yes	
Is construction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	**65.4**	
2	**62.5**	
3	**65.3**	
4	**69.7**	
5	**64.9**	

6	**73.2**	**Truck and car's pass by**
7	**62.9**	
8	**65.3**	
9	**61.7**	
10	**62.5**	
11	**70.8**	**Truck pass by**
12	**65.6**	
13	**66.2**	
14	**64.3**	
15	**68.5**	

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024

4.12 November 2024 – Kira Childcare

Section 1: Inspection Details			Form Number: 1
Project	N228 Precinct Village and Carpark, Moore Park		
Date	25/11/2024	Time: 10:55 AM	
Period	Midday		
Monitoring Type	Complaint:	Verification: X	Periodic:
Monitoring Conducted by	Fletcher Bessant		
Location	Kira Childcare		

Section 2: Conditions		
Wind Speed* (km/h)	16	**Wind Direction: N**
Temperature (c)	23	**Cloud Cover (%):**
Rainfall* (mm)	0	**General Conditions: Clear skies**
Site Characteristics	- Core hole drilling - Bulk excavation - Piling in east	
**Note – monitoring can't be carried out when wind speed is greater than 18mk/hr or during rainfall as per Australian Standard AS 1055.1:1997 - Acoustics - Description and measurement of environmental noise - General Procedures (AS1055.1)*		

Section 3: Monitoring Equipment		
Noise Monitor	Protech QM 1589	**Calibration Date:**
Calibrator	ACU-VIB Electronics	**Calibration Date:**
Field Calibration Before	-	**Field Calibration After: -**

Section 4: Results		
Predicted LAeq(15)	75	
Item	**Result**	**Result**
L1(dBA)	-	
LAeq(dBA)	68.6	
LFmax(dBA)	78.4	
Item	**Comments**	
What works are occurring?	- Core hole drilling - Bulk excavation - Piling in east	
Is construction noise audible?	Yes	
Is extraneous noise present during measurement?	Yes	
Is constriction noise the dominant noise source?	No	
Is construction noise high impact or intrusive? If yes, add 5dBA penalty.	No	
Is the measurement compliant with relevant criteria?	Yes	
Other Comments and Observations		

Minute	Minute by Minute dB	Observation
1	**62.1**	
2	**69.8**	**Car's & trucks at lights**
3	**67.5**	
4	**65.9**	
5	**70.2**	

6	64.7	
7	66	
8	68.1	Car's at lights
9	66.4	
10	66.9	
11	65.2	
12	67.3	
13	64.9	
14	68.5	
15	65.1	

Section 4: Signoff

Project / Environment Manager

Name: Nicholas Papanikolaou Signature: NP Date: 29/11/2024