

Sydney Football Stadium Redevelopment Stage 2 Environmental Monitoring Summary – February 2021

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1 Vibration Monitoring

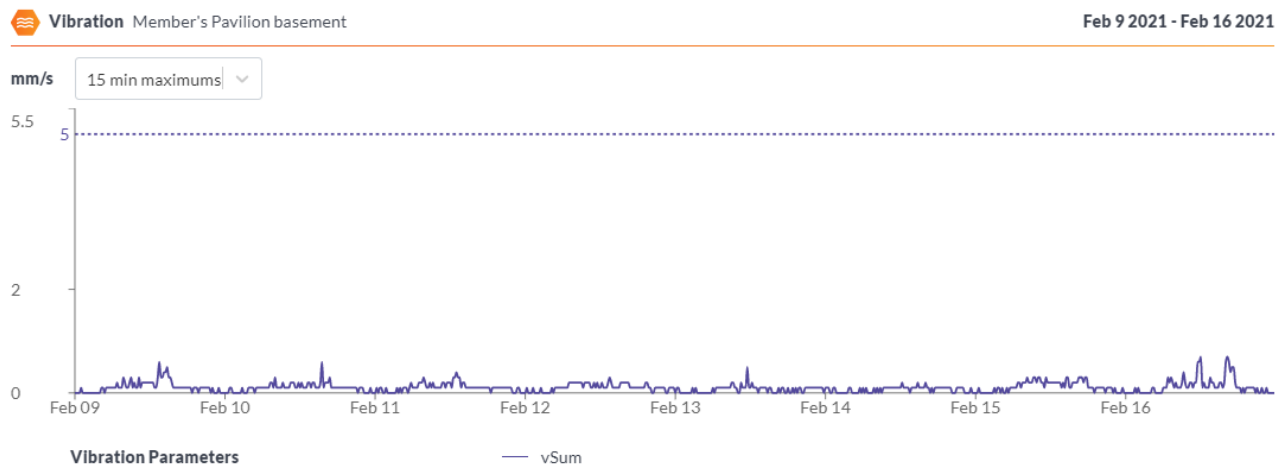
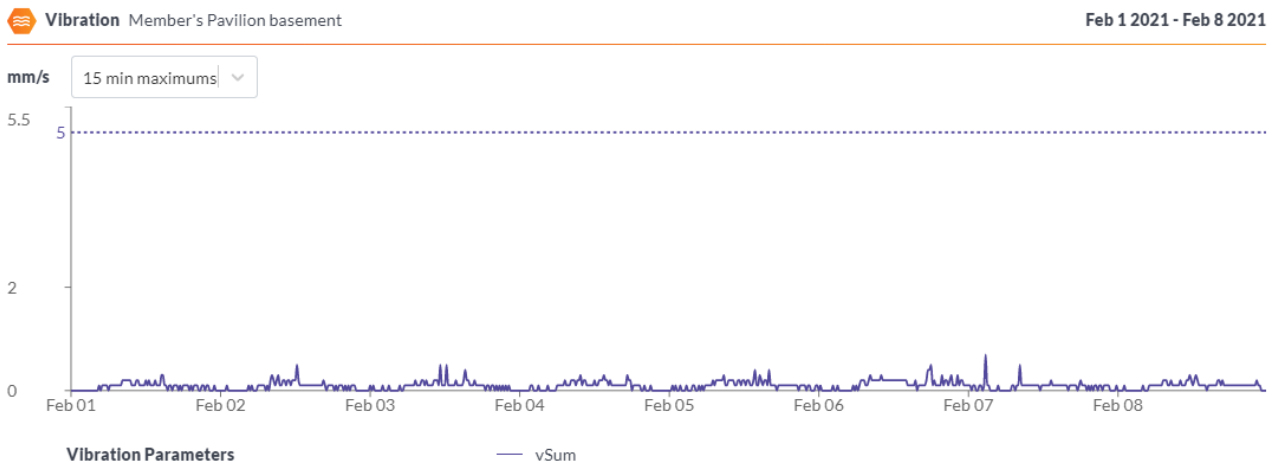
1.1 Real time monitoring

1.1.1 Results

Real time vibration monitoring is conducted in 2 locations

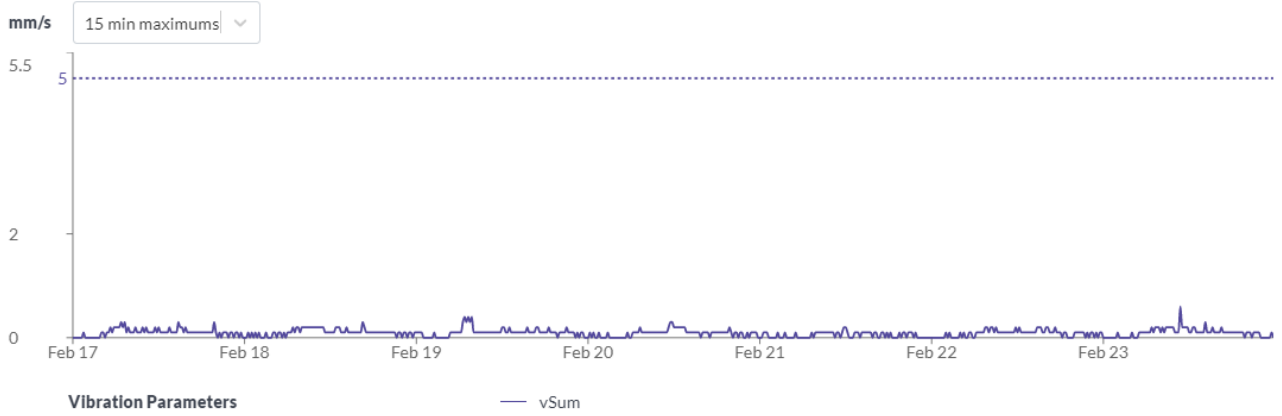
- SCG Members Stand – Criteria of 3mm/s
- Noble Stand adjacent to Fox Studios Boundary – adopted criteria of 7.5mm/s

SCG Members Stand



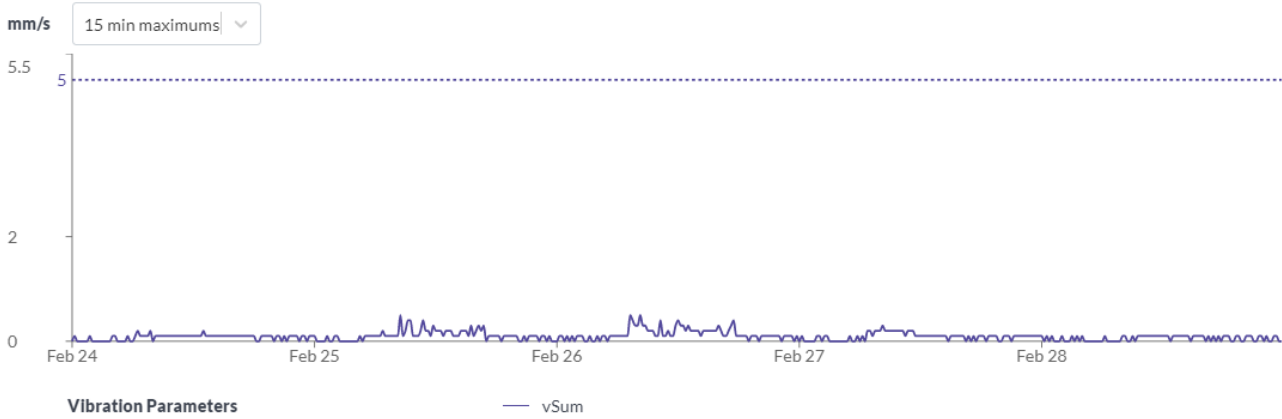
Vibration Member's Pavilion basement

Feb 17 2021 - Feb 23 2021



Vibration Member's Pavilion basement

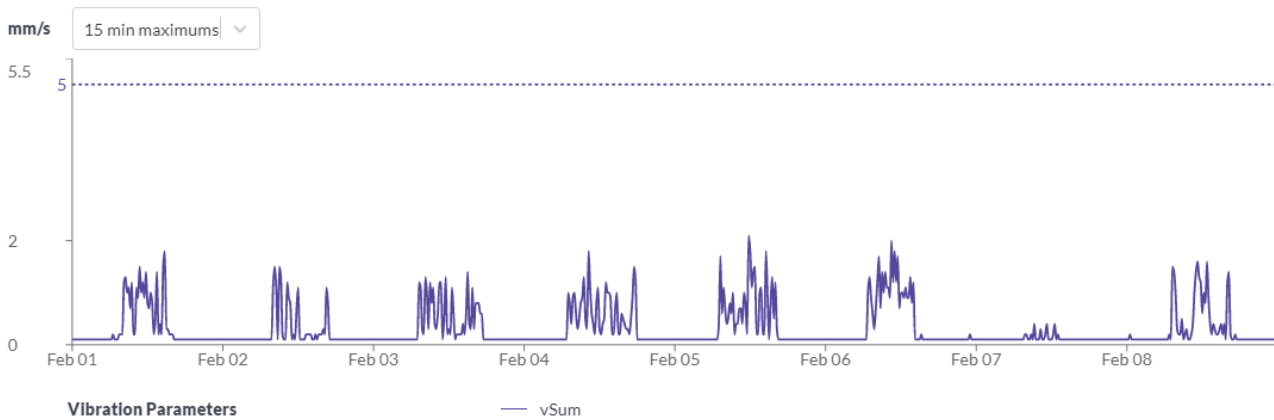
Feb 24 2021 - Feb 28 2021



Noble Stand

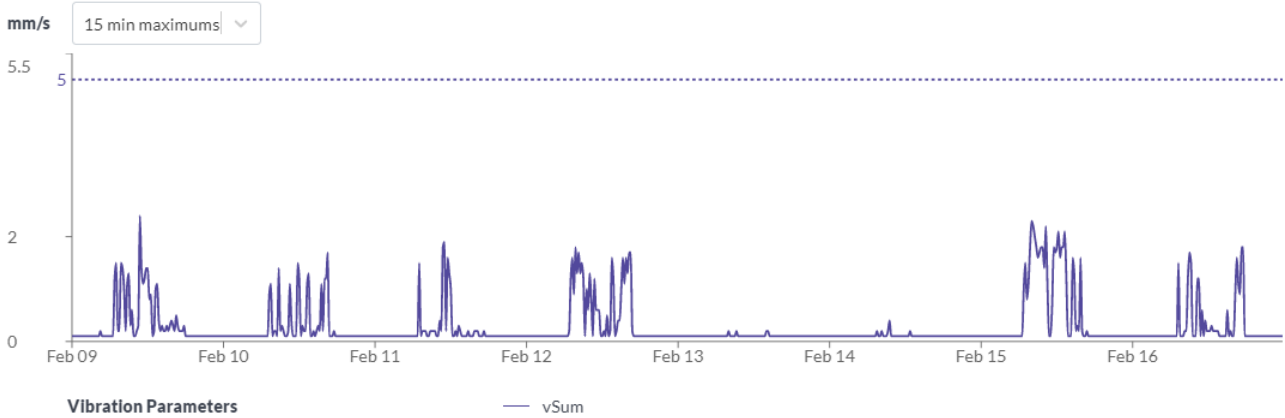
Vibration Noble Stand basement sprinkler room

Feb 1 2021 - Feb 8 2021



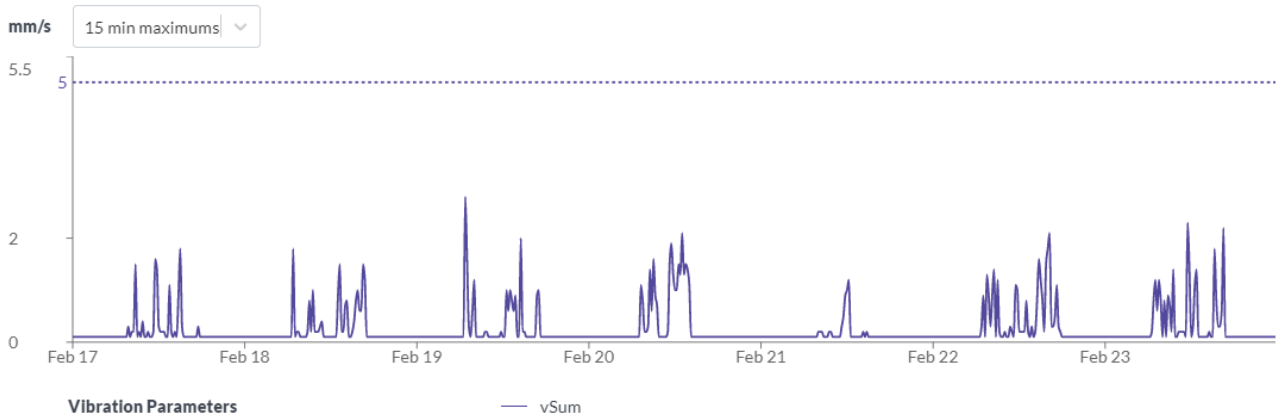
Vibration Noble Stand basement sprinkler room

Feb 9 2021 - Feb 16 2021



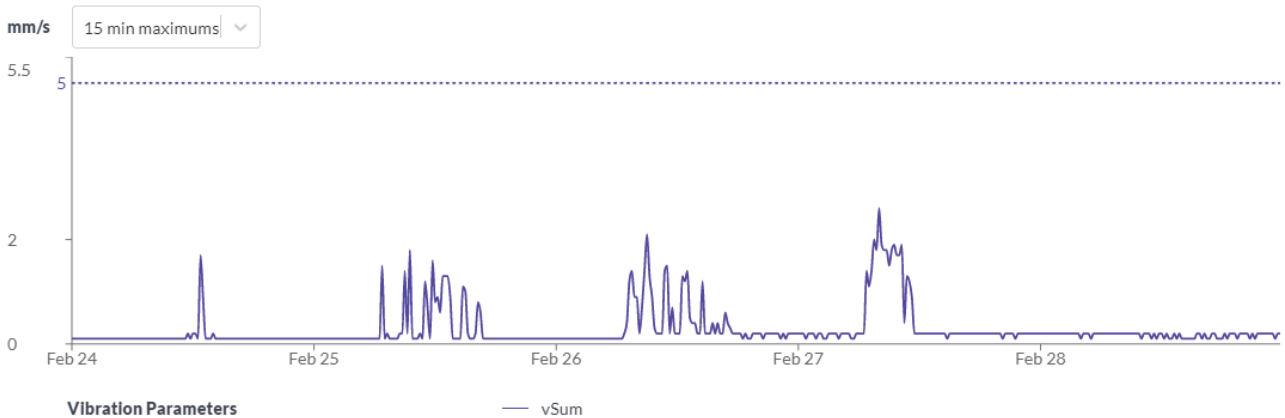
Vibration Noble Stand basement sprinkler room

Feb 17 2021 - Feb 23 2021



Vibration Noble Stand basement sprinkler room

Feb 24 2021 - Feb 28 2021



1.1.2 Discussion

Results were compliant with the relevant criteria during the period. There were no events that exceeded the trigger levels.

1.2 Attended Monitoring

Attended monitoring was not conducted during this period as real time monitors were installed and functional during the assessed period.

2 Noise Monitoring

2.1 Real time monitoring

Real time monitors are located at the following locations

- Kira Childcare
- North East Boundary near Moore Park Road

The adopted criteria are as per the conditions of the Development Consent below:

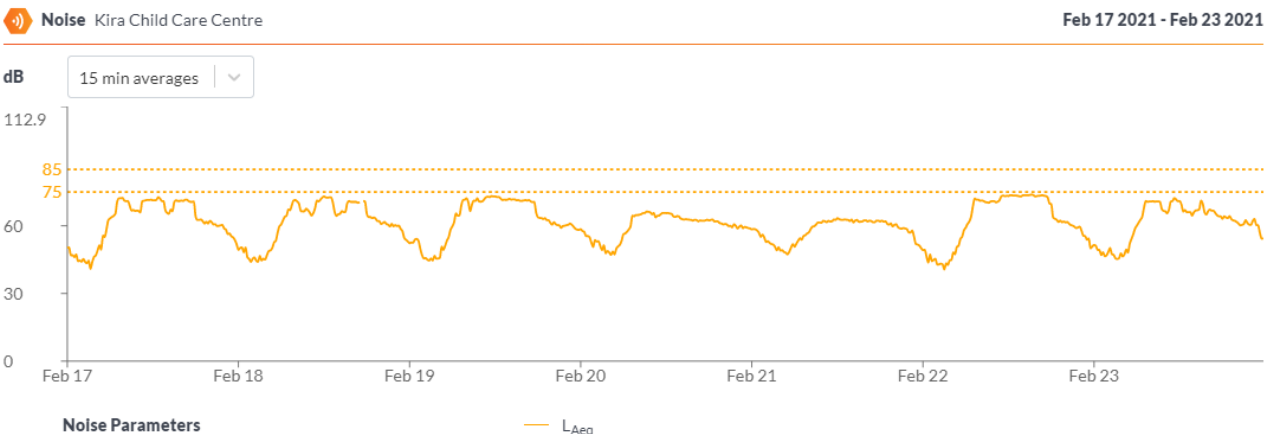
C7. All works that generate noise exceeding 75dB(A) LAeq (15mins) are subject to the intra-day respite periods, as approved by the Planning Secretary in the CNVMP in condition B28

B28e(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 Child Care Centre and / or Fox Studios 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.*

2.1.1 Results

Kira Child Care Centre



Noise Kira Child Care Centre

Feb 24 2021 - Feb 28 2021



Moore Park Road

Noise Gatehouse, Moore Park Road

Feb 1 2021 - Feb 8 2021



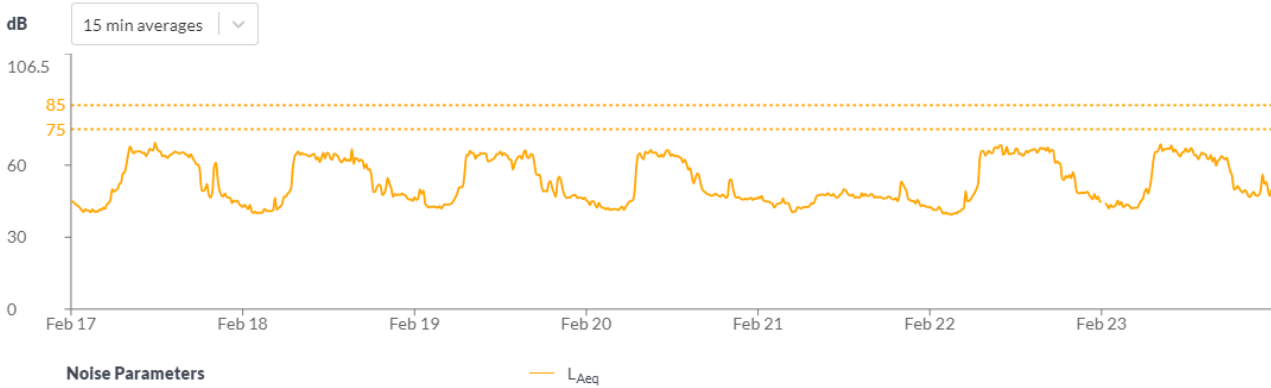
Noise Gatehouse, Moore Park Road

Feb 9 2021 - Feb 16 2021



Noise Gatehouse, Moore Park Road

Feb 17 2021 - Feb 23 2021



Noise Gatehouse, Moore Park Road

Feb 24 2021 - Feb 28 2021



2.1.2 Discussion

Works were compliant with the criteria. The predominant source of noise was due to peak hour traffic. There are small periods of missing data due to a malfunction of the monitor, and scheduled site maintenance.

2.2 Attended Monitoring

Attended monitoring was carried out at 4 locations as below

Date	Time	Location	Predicted L _{Aeq} (15)	Result (L _{Aeq})	Activities	Comment
12/2/21	10:49	E5	77	79.6	Excavation works, Jack hammering	Traffic dominant noise source, construction works are audible
10/2/21	13:01	CC2	74	61.4	Excavation works, hammering	Traffic dominant noise source
10/2/21	09:52	R6	80	71.1	Excavation works, Tower crane lifting,	Traffic dominant noise source, construction works are audible

					concrete pouring	
10/2/21	13:33	C1	76	66.5	Excavation works, hammering	Construction works are audible.

3 Dust Monitoring

3.1 Real Time Monitoring

2 Real time dust monitors are installed on the site

- North eastern boundary near Moore Park Road
- SCG
- Kira Childcare Centre

The criteria and trigger values are as below:

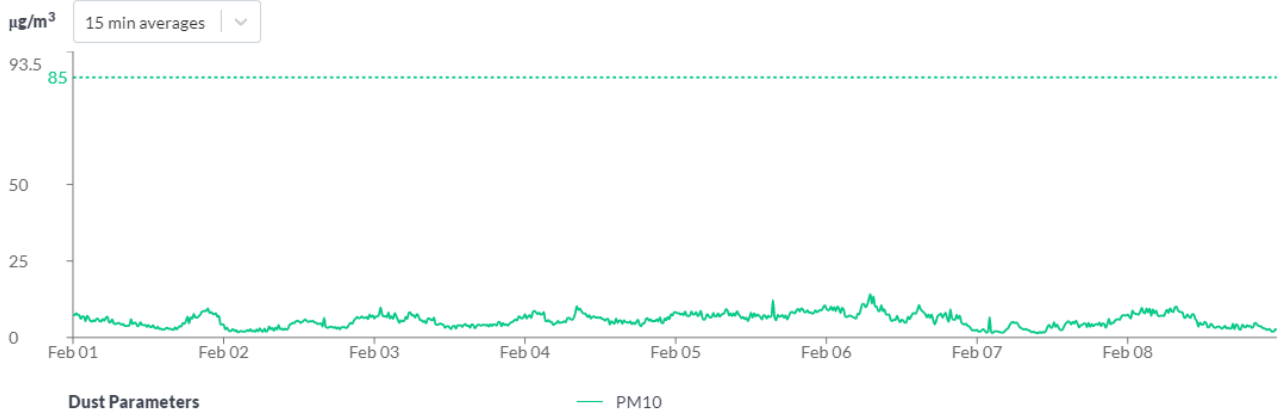
Trigger Stage	Averaging Period	Trigger Value ($\mu\text{g}/\text{m}^3$)	Action Required
1 Investigate	1 hour	85	Site Manager to undertake review of possible dust sources operating during the average period.
	3 hour	80	Identify possible measures for these activities; action if deemed necessary.
2 Action	1 hour	470	Site Manager to attend site and ensure implementation of the control.
	3 hour	160	Effectiveness of control actions to be reviewed and escalate where appropriate.
3 Stop Work	1 hour	940	Targeted shut down of dust-generating activities until the measured pollutant levels are below the stated trigger value.
	3 hour	320	Identify long-term solutions to dust issues.

3.1.1 Results

Moore Park Road

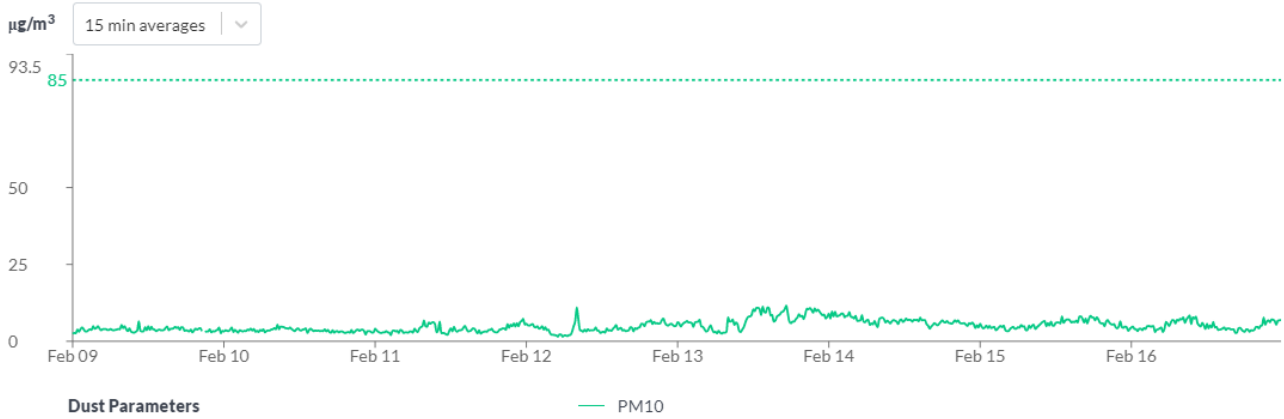
Dust Gatehouse, Moore Park Road

Feb 1 2021 - Feb 8 2021



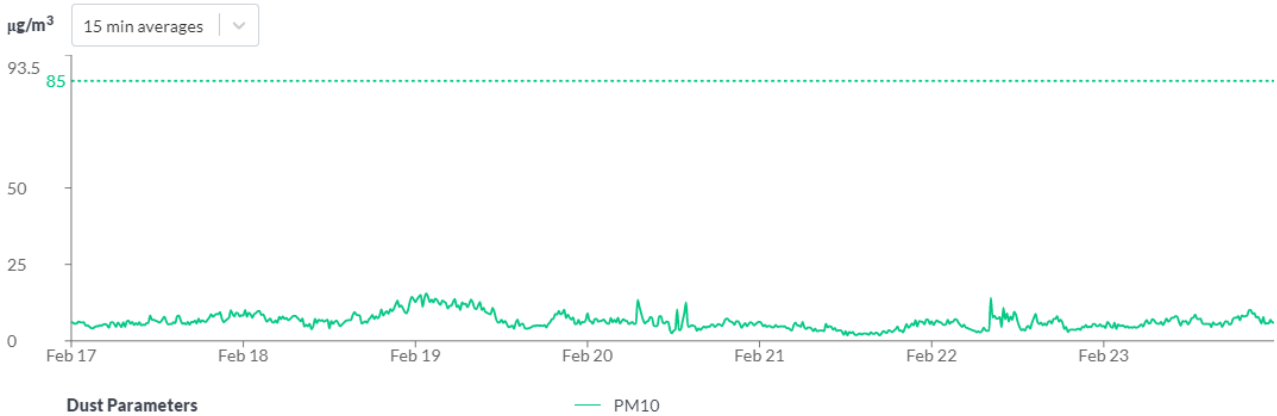
Dust Gatehouse, Moore Park Road

Feb 9 2021 - Feb 16 2021



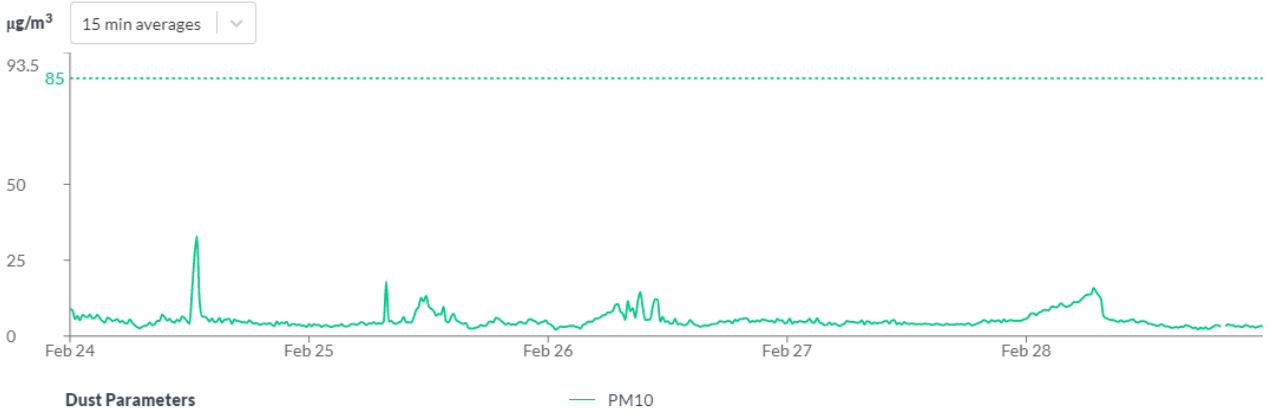
Dust Gatehouse, Moore Park Road

Feb 17 2021 - Feb 23 2021



Dust Gatehouse, Moore Park Road

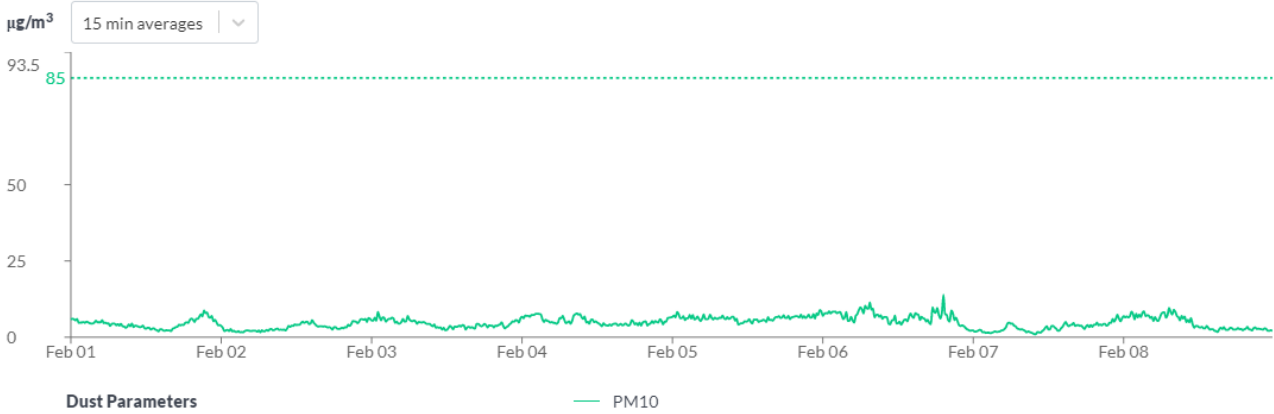
Feb 24 2021 - Feb 28 2021



SCG

Dust SCG

Feb 1 2021 - Feb 8 2021



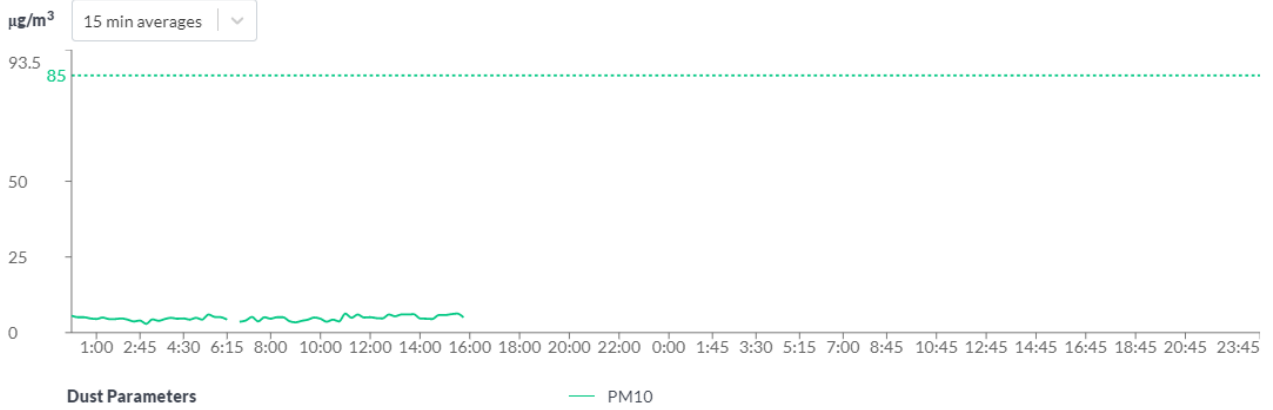
Dust SCG

Feb 9 2021 - Feb 16 2021



Dust SCG

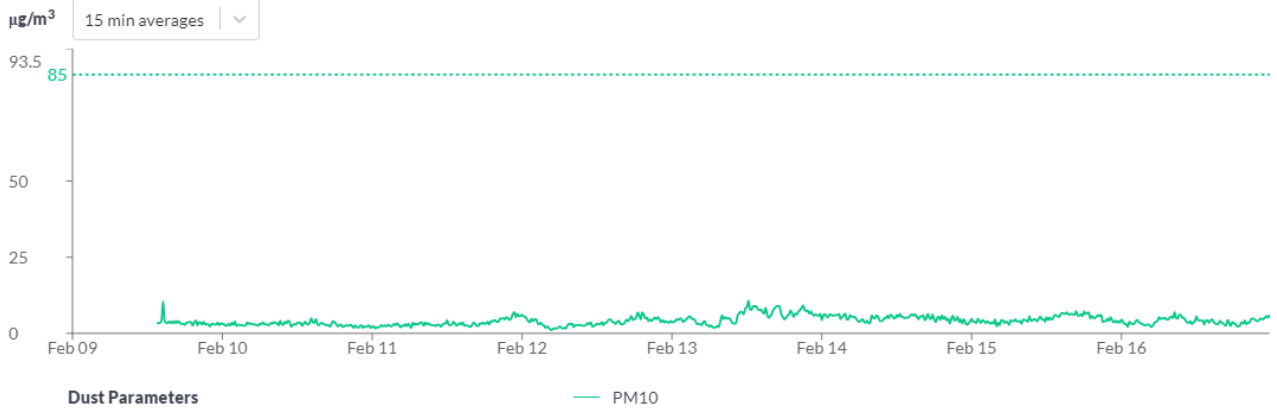
Feb 17 2021 - Feb 18 2021



Kira Childcare Centre

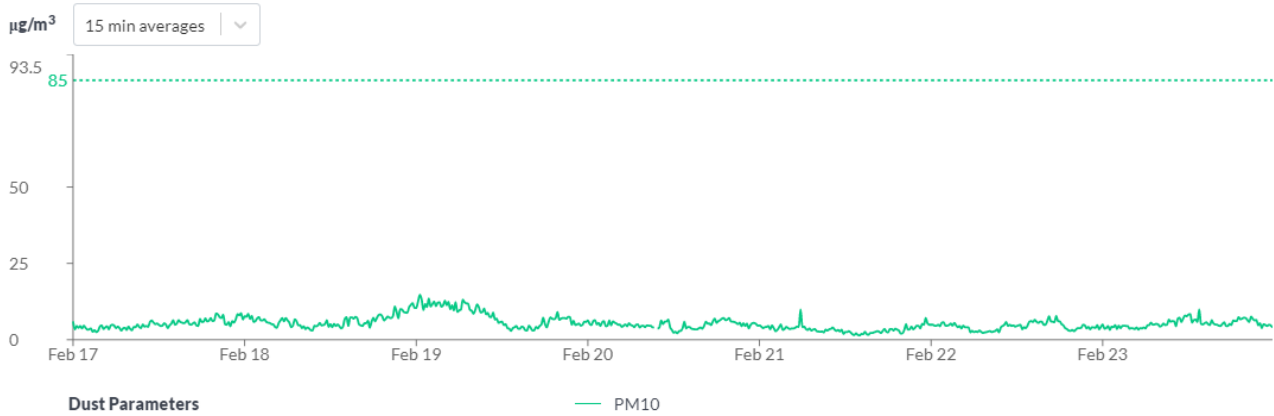
Dust Kira Child Care Centre

Feb 9 2021 - Feb 16 2021



Dust Kira Child Care Centre

Feb 17 2021 - Feb 23 2021



Dust Kira Child Care Centre

Feb 24 2021 - Feb 28 2021



3.1.2 Discussion

There were no exceedances of the trigger levels. There are small periods of missing data due to a malfunction of the monitor, and scheduled site maintenance.

3.2 Dust Deposition Monitoring

Gauge ID	Location	Trigger value g/m2/month	Result g/m2/month	Comment
August 2020				
DDG1	1	4	4.3	No trigger level events were recorded by real time monitors
DDG2	2A	4	2.2	No trigger level events were recorded by real time monitors

4 Water Quality Monitoring

Water quality monitoring was undertaken in 3 locations in Kippax Lake.

Date	Time	Location	Temp	pH (c)	EC mS/cm	NTU	DO Mg/L	TDS g/L	Comment
22/02/21	12:29	1 (north)	27.79	9.06	0.207	83.8	12.58	0.135	No evidence of overland flow or impacts from SFs project activities. Significant plant detritus/ algal bloom
22/02/21	12:30	2 (mid)	27.77	9.05	0.207	87.5	12.24	0.135	No evidence of overland flow or impacts from SFs project activities. Significant plant detritus/ algal bloom
22/02/21	12:31	3 (south)	27.63	9.04	0.208	110	11.91	0.136	No evidence of overland flow or impacts from SFs project activities. Significant plant detritus/ algal bloom