

# **Sydney Football Stadium Redevelopment Stage 2 Environmental Monitoring Summary – October 2021**

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## Table of contents

<b>1</b>	<b>Vibration Monitoring</b> .....	<b>3</b>
	1.1 Real time monitoring .....	<b>Error! Bookmark not defined.</b>
	1.2 Attended Monitoring .....	<b>3</b>
<b>2</b>	<b>Noise Monitoring</b> .....	<b>4</b>
	2.1 Real time monitoring .....	<b>4</b>
	2.2 Attended Monitoring .....	<b>6</b>
<b>3</b>	<b>Dust Monitoring</b> .....	<b>7</b>
	3.1 Real Time Monitoring .....	<b>7</b>
	3.2 Dust Deposition Monitoring .....	<b>9</b>
<b>4</b>	<b>Water Quality Monitoring</b> .....	<b>10</b>

# 1 Vibration Monitoring

## 1.1 Attended Monitoring

Attended monitoring was conducted during this period as high impact works were undertaken within the vicinity of the SCG

Date	Time	Location	Threshold	Result (mm/s)	Activities	Comment
28/10/21	08:45	Member's basement	3mm/s	0.21	Jackhammering, milling	Works audible, vibration imperceptible through majority of reading. Other works occurring not related to SFS
29/10/21	08:00	Member's basement	3mm/s	0.94	Jackhammering, milling	Works audible, vibration imperceptible through majority of reading. Other works occurring not related to SFS
1/11/21	09:30	Member's basement	3mm/s	1.4	Jackhammering, milling	Works audible, vibration imperceptible through majority of reading. Other works occurring not related to SFS
2/11/21	08:45	Member's basement	3mm/s	2.1	Jackhammering, milling	Works audible, vibration imperceptible through majority of reading. Other works occurring not related to SFS
3/11/21	11:20	Member's basement	3mm/s	0.84	Jackhammering	Works audible, vibration imperceptible through majority of reading. Other works occurring not related to SFS
4/11/21	13:00	Member's basement	3mm/s	1.3	Jackhammering	Works audible, vibration imperceptible through majority of reading. Other works occurring not related to SFS
5/11/21	08:20	Member's basement	3mm/s	1.2	Jackhammering	Works audible, vibration imperceptible

						through majority of reading
8/11/21	11:25	Member's basement	3mm/s	1.4	Jackhammering, milling	Works audible, vibration imperceptible through majority of reading. Other works occurring not related to SFS

### 1.1.1 Discussion

Results were compliant with the relevant criteria during the period. There are no events that exceeded trigger levels related to works conducted onsite. Attended monitoring will continue to take place in instances of high impact works.

## 2 Noise Monitoring

### 2.1 Real time monitoring

Real time monitors were 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



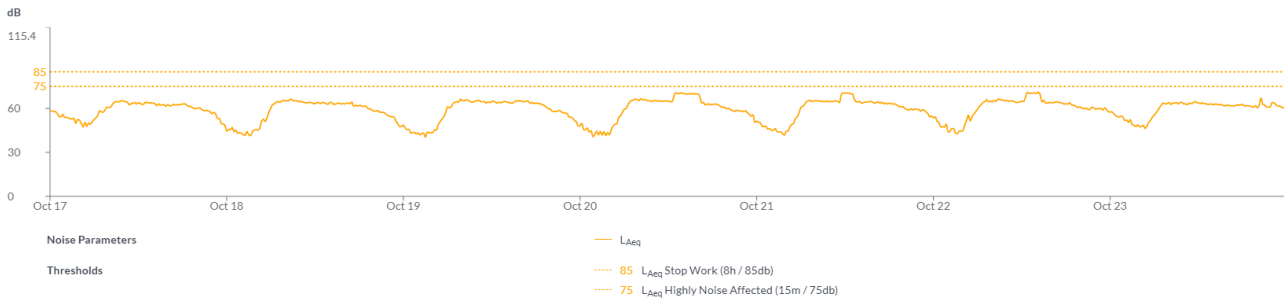
**Kira Child Care Centre**

Oct 9 2021 - Oct 16 2021



**Kira Child Care Centre**

Oct 17 2021 - Oct 23 2021



**Kira Child Care Centre**

Oct 24 2021 - Oct 31 2021



## Moore Park Road

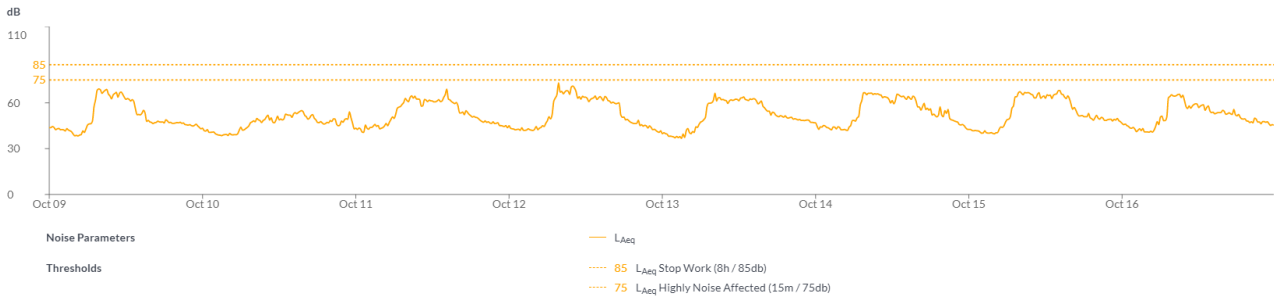
**Gatehouse, Moore Park Road**

Oct 1 2021 - Oct 8 2021



Gatehouse, Moore Park Road

Oct 9 2021 - Oct 16 2021



Gatehouse, Moore Park Road

Oct 17 2021 - Oct 23 2021



Gatehouse, Moore Park Road

Oct 24 2021 - Oct 31 2021



## 2.1.2 Discussion

Works were compliant with the criteria. There were 3 instances exceeding the Highly Noise Affected threshold however, upon review of real time noise monitor these events were unrelated to the project. The predominant source of noise was due to peak hour traffic.

## 2.2 Attended Monitoring

Attended monitoring was carried out at 4 locations as below

Date	Time	Location	Predicted Laeq (15)	Result (Laeq)	Activities	Comment
14/10/21	09:45	E5	77	68.2	Excavation works, Crane operations, steel fixing, façade installation	Traffic dominant noise source, construction works are audible.
14/10/21	10:00	CC2	74	64.3	Excavation works, Crane operations, façade installation	Traffic dominant noise source, construction audible

14/10/21	10:20	R6	80	67.8	Excavation works, Tower crane lifting, steel fixing, façade installation	Traffic dominant noise source, construction works are audible
14/10/21	10:50	C1	76	71.2	Crane operations, steel fixing, formwork, façade installation	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
- Kira Childcare Centre

The criteria and trigger values are as below:

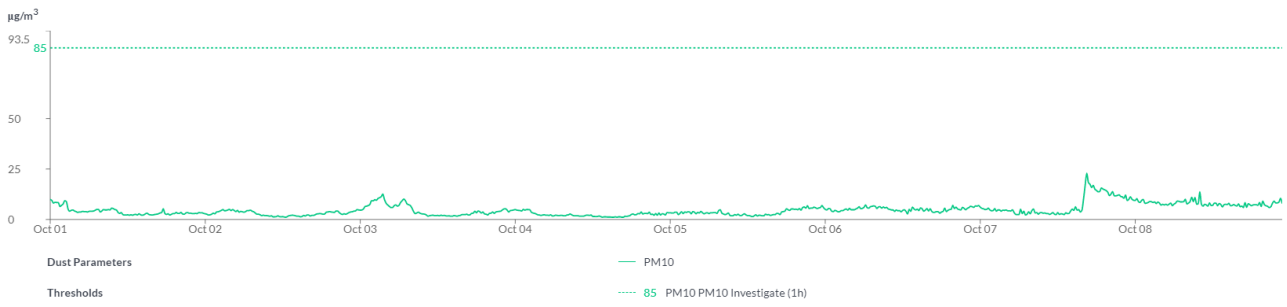
Trigger Stage	Averaging Period	Trigger Value ( $\mu\text{g}/\text{m}^3$ )	Action Required
1 Investigate	1 hour	85	Site Manager to undertake review of possible dust sources operating during the average period.
	3 hour	80	Identify possible measures for these activities; action if deemed necessary.
2 Action	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

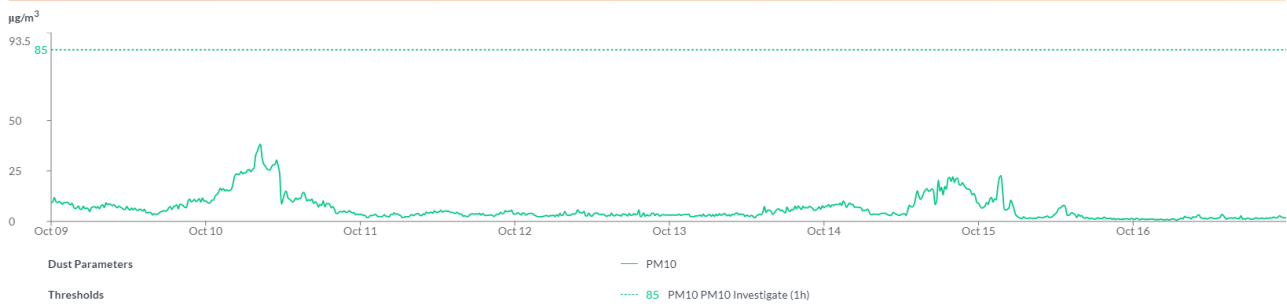
Gatehouse, Moore Park Road

Oct 1 2021 - Oct 8 2021



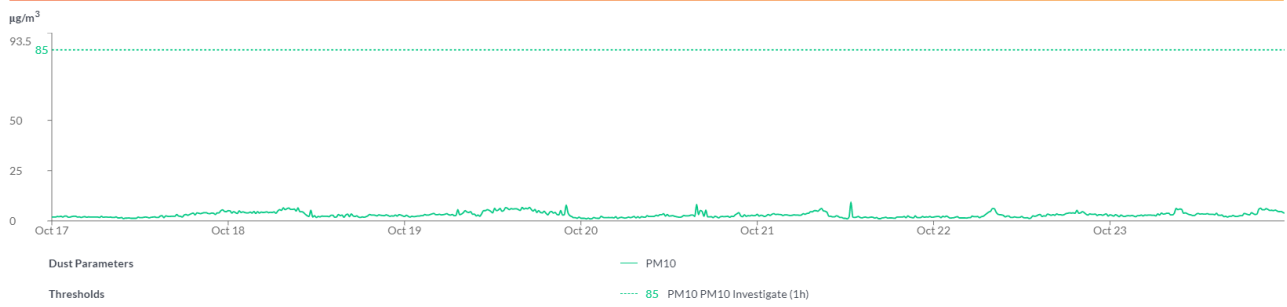
Gatehouse, Moore Park Road

Oct 9 2021 - Oct 16 2021



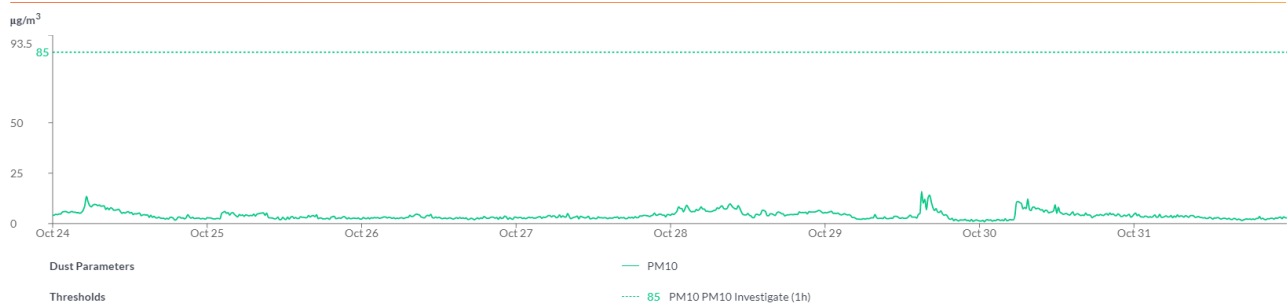
Gatehouse, Moore Park Road

Oct 17 2021 - Oct 23 2021



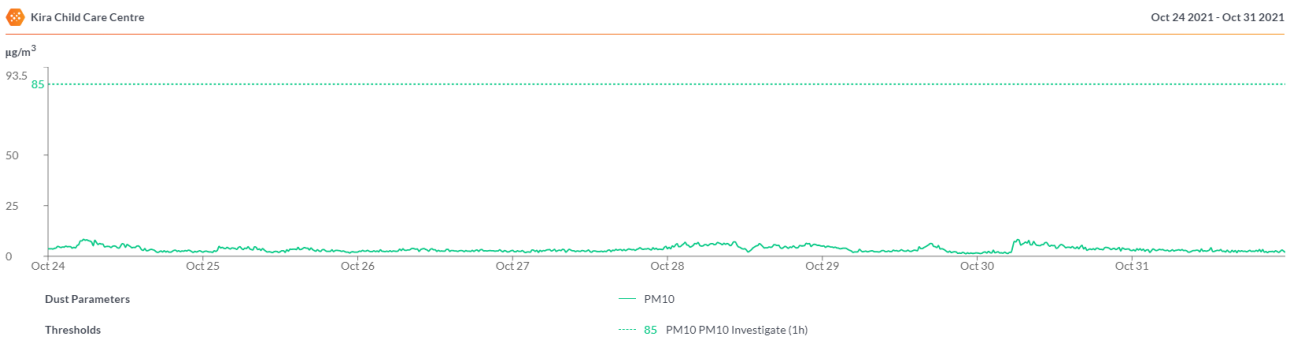
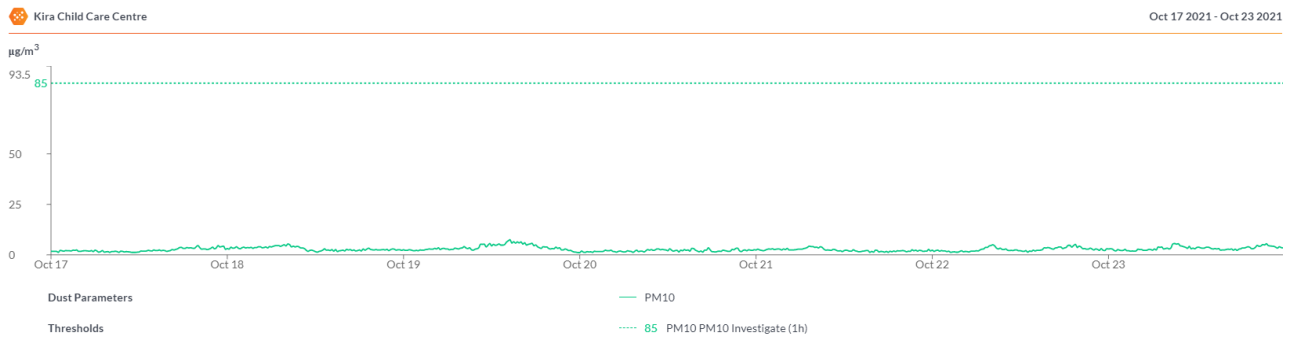
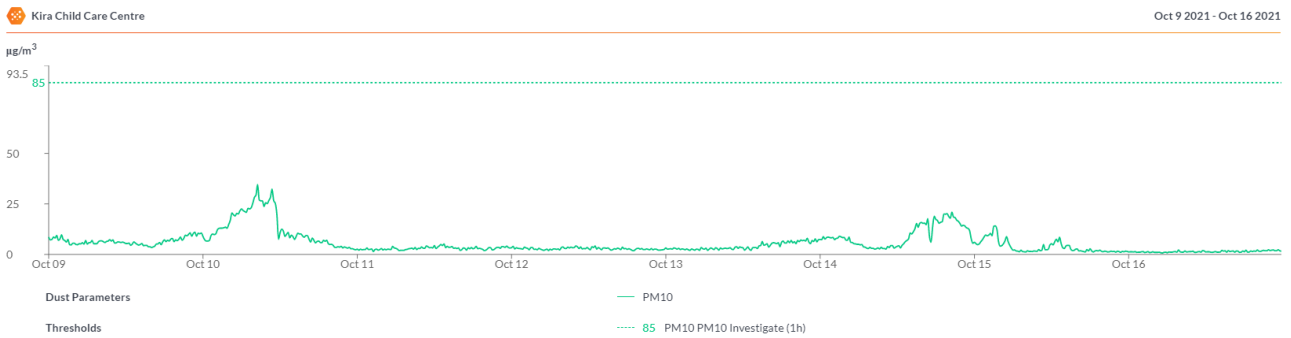
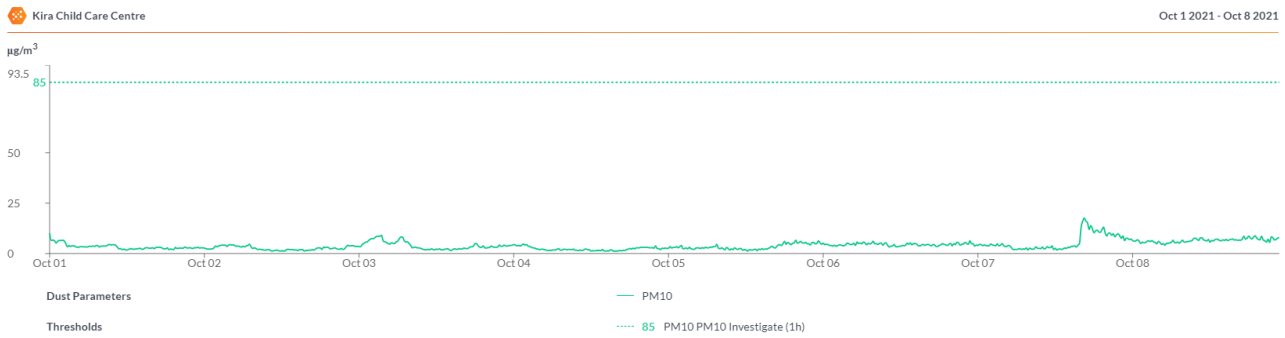
Gatehouse, Moore Park Road

Oct 24 2021 - Oct 31 2021



**Kira Childcare Centre**





### 3.1.2 Discussion

There were no exceedances of the investigate trigger level during this month. There were no exceedances of the action trigger level. Short periods of missing data are due to monitor maintenance.

## 3.2 Dust Deposition Monitoring

Gauge ID	Location	Trigger value g/m2/month	Result g/m2/month	Comment
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April 2020				
DDG1	1	4	2.8	No trigger level events were recorded by real time monitors
DDG2	2A	4	5.0	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	EC	NTU	DO	TDS	Comment
				(c)	mS/cm		Mg/L	g/L	
12/10/21	14:00	1 (north)	15.61	7.23	0.152	35.3	10.72	0.11	No evidence of overland flow or impacts from SFs project activities.
12/10/21	14:05	2 (mid)	15.66	7.35	0.152	34.2	10.22	0.098	No evidence of overland flow or impacts from SFs project activities.
12/10/21	14:10	3 (south)	15.62	7.42	0.164	36.4	10.1	0.10	No evidence of overland flow or impacts from SFs project activities. Significant plant detritus/ algal bloom