

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

**Author: Holly Hofland  
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# 1 Vibration Monitoring

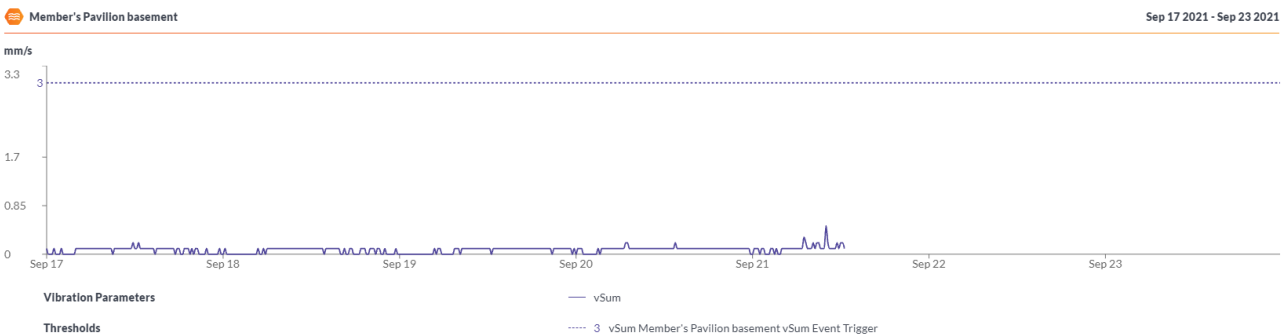
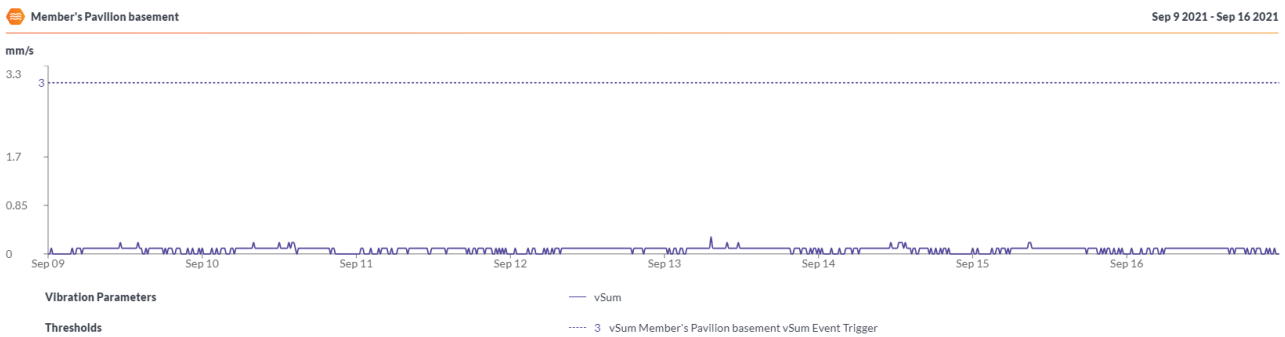
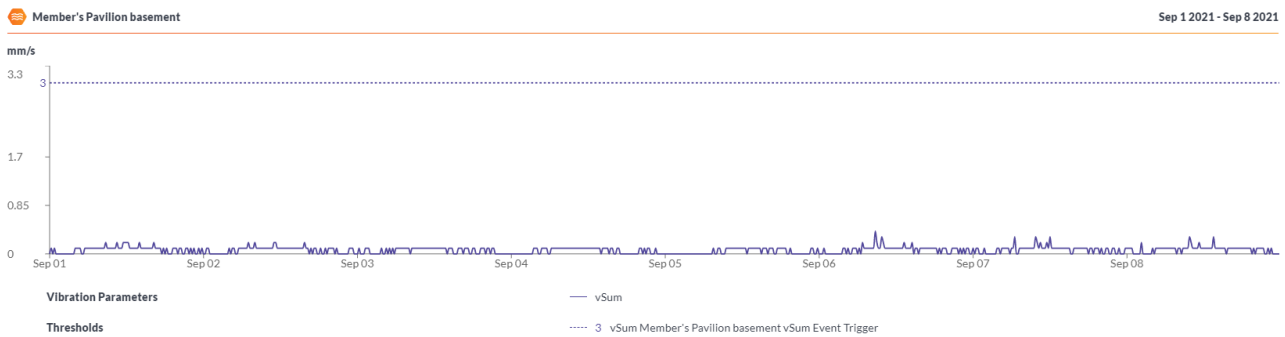
## 1.1 Real time monitoring

### 1.1.1 Results

Real time vibration monitoring was conducted in 2 locations for the period of 1/9/21 – 21/9/21.

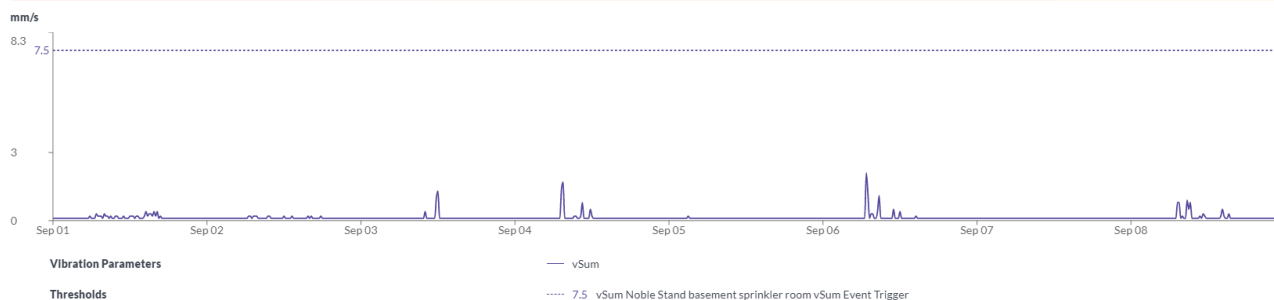
- SCG Members Stand – Criteria of 3mm/s
- Noble Stand adjacent to Fox Studios Boundary – adopted criteria of 7.5mm/s

#### SCG Members Stand

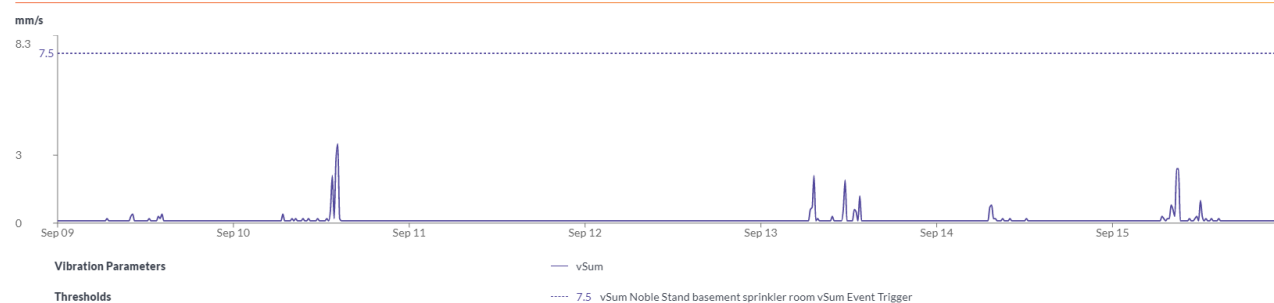


#### Noble Stand

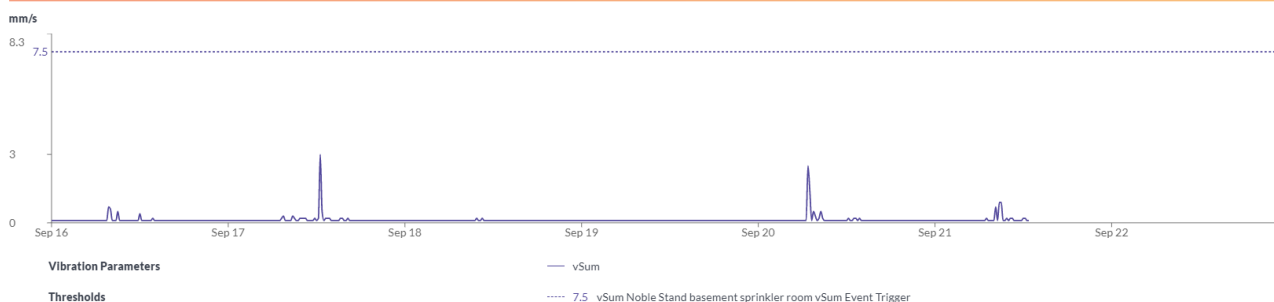
Noble Stand basement sprinkler room Sep 1 2021 - Sep 8 2021



Noble Stand basement sprinkler room Sep 9 2021 - Sep 15 2021



Noble Stand basement sprinkler room Sep 16 2021 - Sep 22 2021



## 1.1.2 Discussion

Results were compliant with the relevant criteria during the period. There were no events that exceeded trigger levels. As high impact works have been completed these monitors are no longer required. Attended monitoring will take place when required.

## 1.2 Attended Monitoring

Attended monitoring was not conducted during this period as real time monitors were installed and functional during the assessed period, and no high impact works were undertaken in the vicinity of the SCG.

# 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:

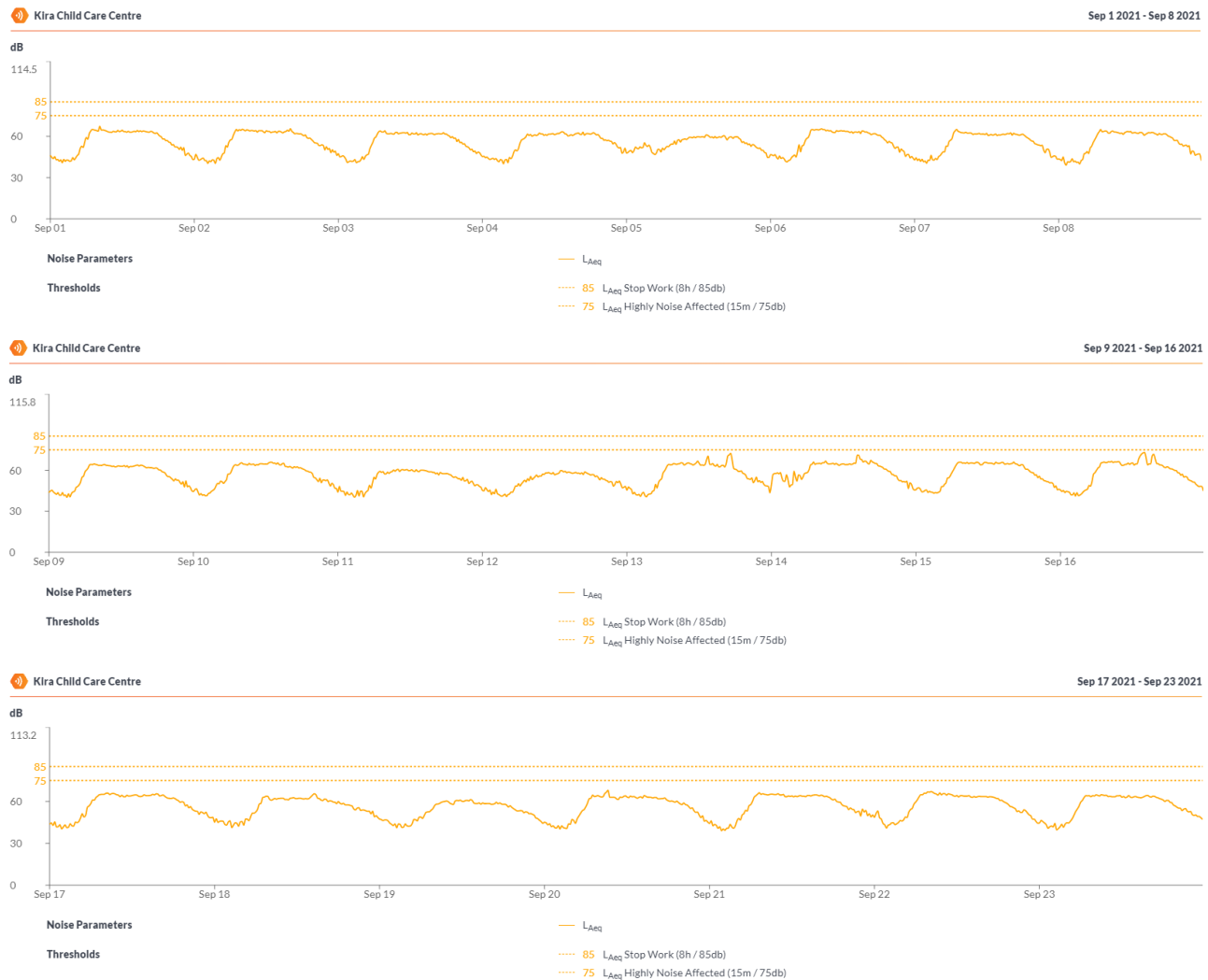
C7. All works that generate noise exceeding 75dB(A) LAeq (15mins) are subject to the intra-day respite periods, as approved by the Planning Secretary in the CNVMP in condition B28

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.

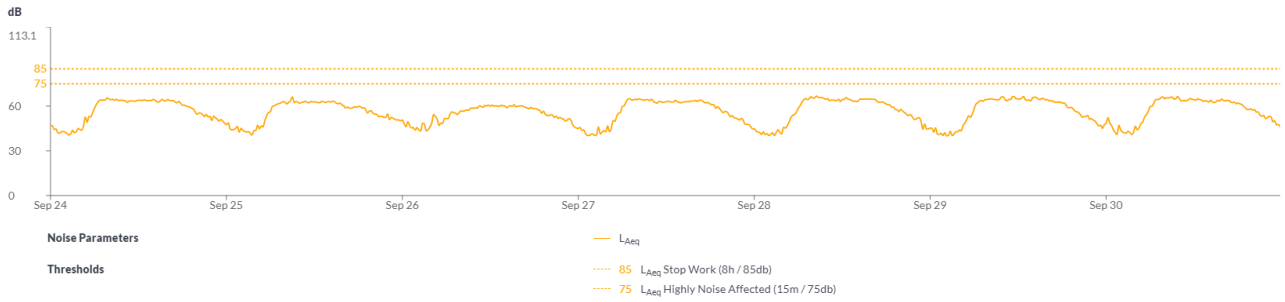
## 2.1.1 Results

### Kira Child Care Centre



**Kira Child Care Centre**

Sep 24 2021 - Sep 30 2021



**Moore Park Road**

**Gatehouse, Moore Park Road**

Sep 1 2021 - Sep 8 2021



**Gatehouse, Moore Park Road**

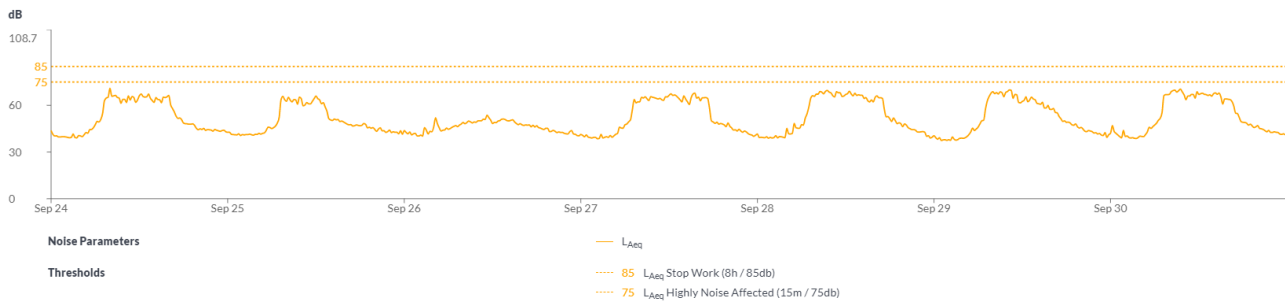
Sep 9 2021 - Sep 16 2021



**Gatehouse, Moore Park Road**

Sep 17 2021 - Sep 23 2021





### 2.1.2 Discussion

Works were compliant with the criteria. There were no instances exceeding the Highly Noise Affected threshold. 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
17/9/21	08:05	E5	77	68.2	Excavation works, Crane operations, steel fixing, façade installation	Traffic dominant noise source, construction works are audible.
17/9/21	08:24	CC2	74	70.6	Excavation works, Crane operations, façade installation	Traffic dominant noise source, construction audible
17/9/21	08:42	R6	80	72.1	Excavation works, Tower crane lifting, steel fixing, façade installation	Traffic dominant noise source, construction works are audible
17/9/21	09:31	C1	76	74.1	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

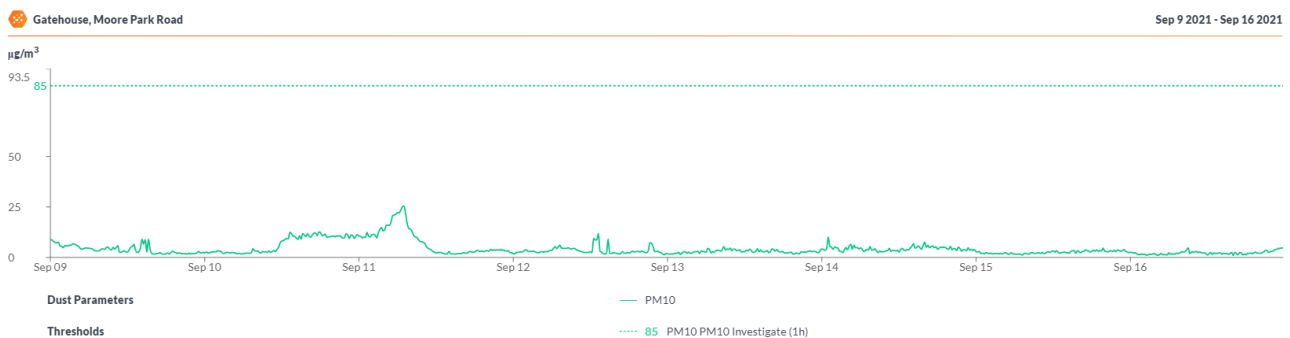
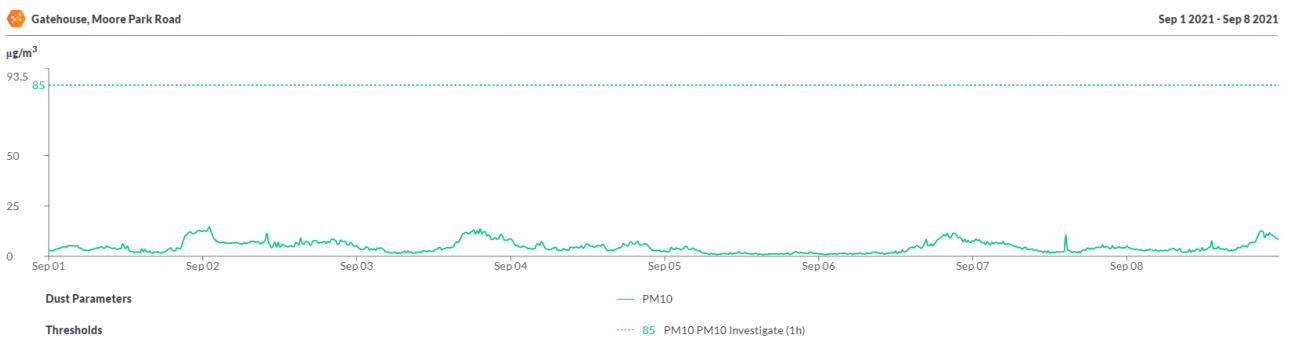
- North eastern boundary near Moore Park Road
- Kira Childcare Centre

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. Identify possible measures for these activities; action if deemed necessary.
	3 hour	80	
2 Action	1 hour	470	Site Manager to attend site and ensure implementation of the control. Effectiveness of control actions to be reviewed and escalate where appropriate.
	3 hour	160	
3 Stop Work	1 hour	940	Targeted shut down of dust-generating activities until the measured pollutant levels are below the stated trigger value. Identify long-term solutions to dust issues.
	3 hour	320	

### 3.1.1 Results

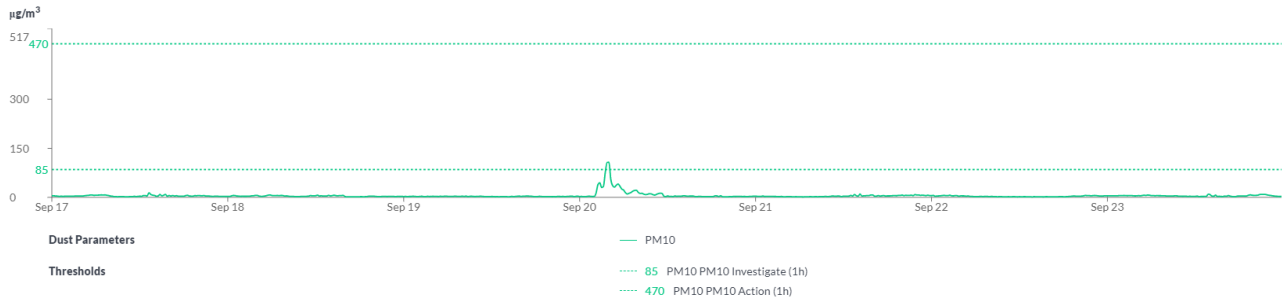
#### Moore Park Road





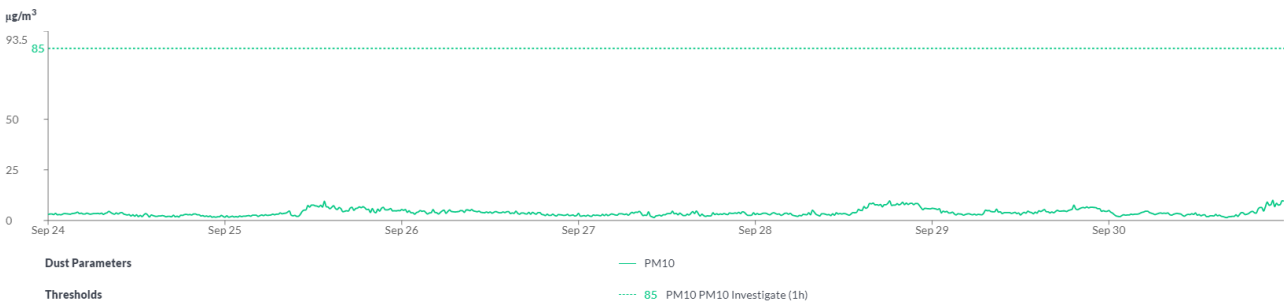
**Gatehouse, Moore Park Road**

Sep 17 2021 - Sep 23 2021



**Gatehouse, Moore Park Road**

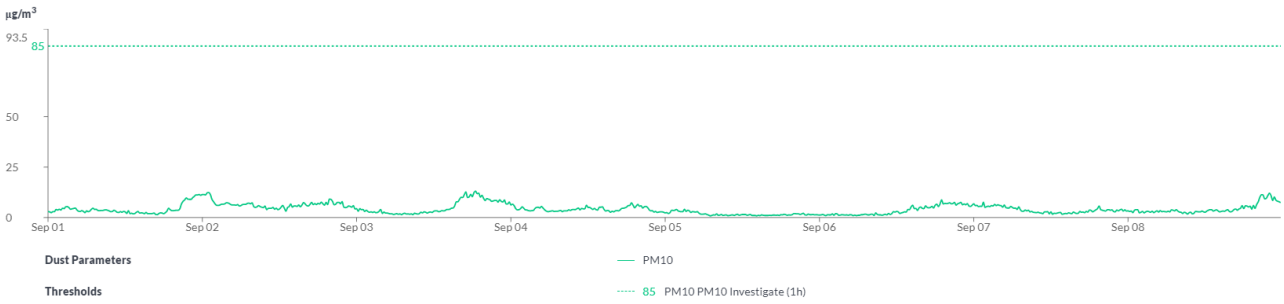
Sep 24 2021 - Sep 30 2021



**Kira Childcare Centre**

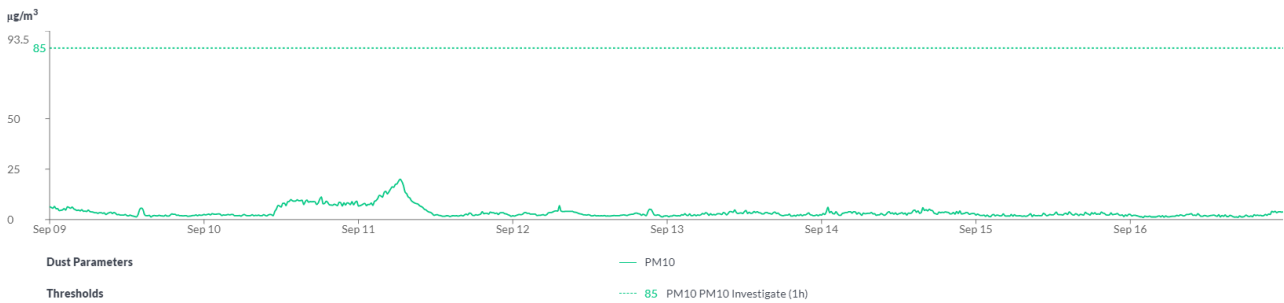
**Kira Child Care Centre**

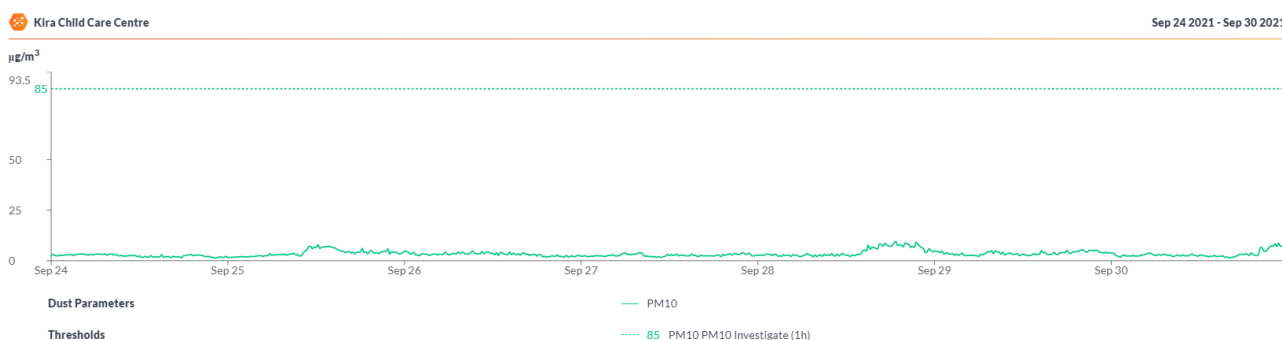
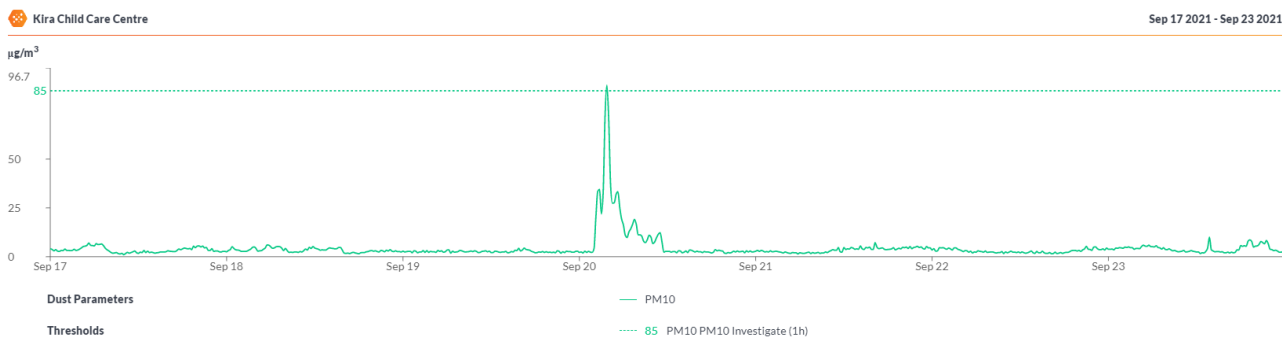
Sep 1 2021 - Sep 8 2021



**Kira Child Care Centre**

Sep 9 2021 - Sep 16 2021





### 3.1.2 Discussion

There was one short term exceedance of the investigate trigger level during this month. Site inspection was undertaken, and further mitigations put in place to reduce generation of dust. There were no exceedances of the action trigger level.

## 3.2 Dust Deposition Monitoring

Gauge ID	Location	Trigger value g/m <sup>2</sup> /month	Result g/m <sup>2</sup> /month	Comment
<b>April 2020</b>				
DDG1	1	4	3.9	No trigger level events were recorded by real time monitors
DDG2	2A	4	2.5	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	
15/9/21	13:04	1 (north)	14.31	7.34	0.152	32.1	10.84	0.089	No evidence of overland flow or

									impacts from SFs project activities.
<b>15/9/21</b>	13:06	2 (mid)	14.63	7.28	0.153	35.6	10.13	0.087	No evidence of overland flow or impacts from SFs project activities.
<b>15/9/21</b>	13:07	3 (south)	14.68	7.41	0.182	34.7	9.94	0.087	No evidence of overland flow or impacts from SFs project activities. Significant plant detritus/ algal bloom