

## Shoalhaven Hospital Redevelopment

### Dust Monitoring Report 21

February 2025

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Attention To	John Holland Group Pty Ltd

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## 1 INTRODUCTION

This report presents the results of dust monitoring conducted by Acoustic Logic for the Shoalhaven Hospital Redevelopment project site. Details presented in this report include monitoring locations, relevant project objectives, measured levels over the monitoring period and discussion of results.

This report presents the results of monitoring for the month of February between 1/2/2025 and 28/2/2025. Monitoring has been ongoing since 29<sup>th</sup> May 2023.

This report should be read in conjunction with the Construction Noise, Dust and Vibration Management Sub Plan prepared by this office (ref: 20230220.1/0506A/R1/VF, dated 05/06/2023)

## 2 SITE DESCRIPTION

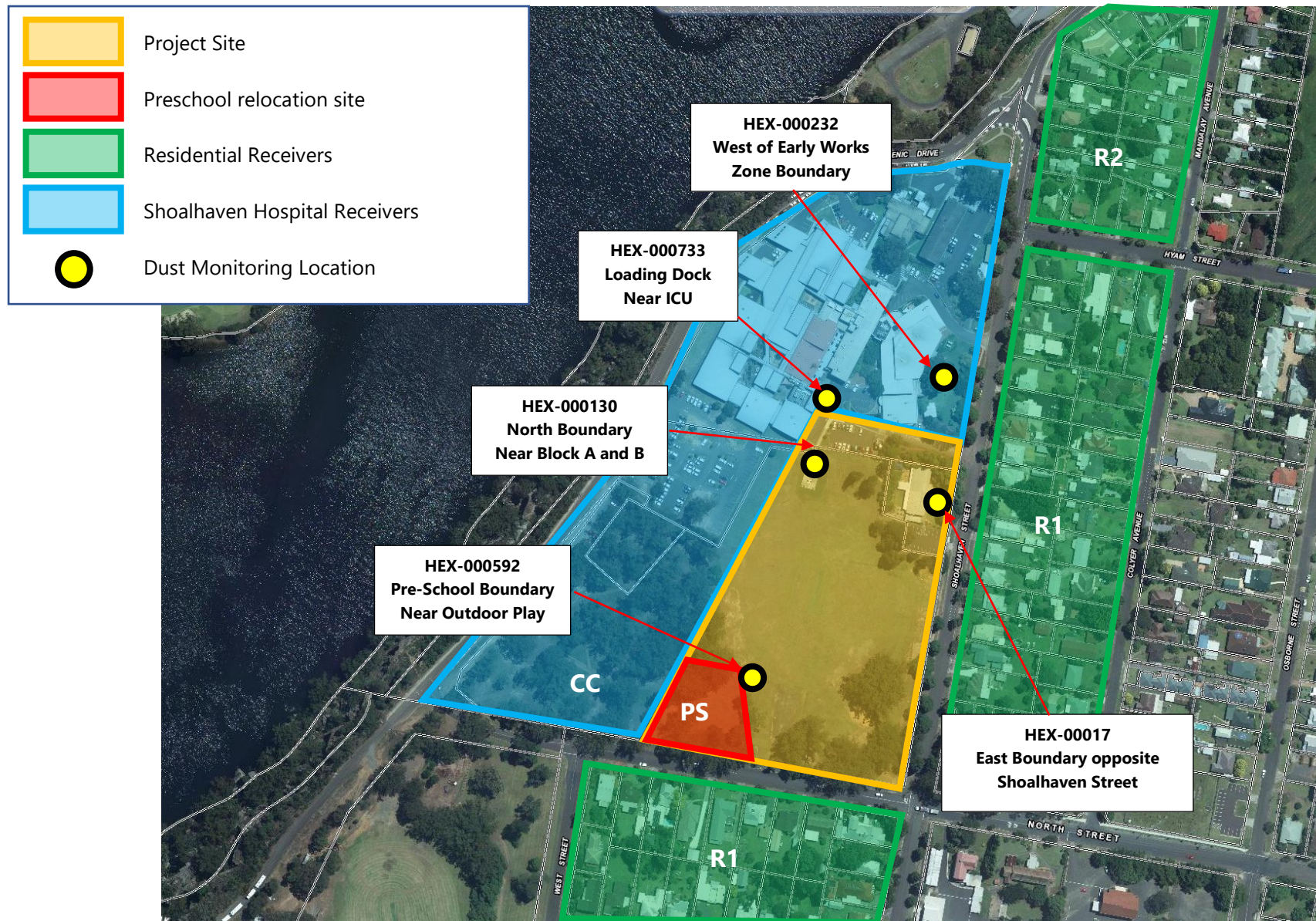
The project site is located at Shoalhaven Hospital Redevelopment. Site works are at building construction stage.

### 2.1.1 Surrounding Receivers

Based on site investigations, the following developments surround the site:

**Table 1 – Sensitive Receivers**

<b>Receiver (Refer Figure 1)</b>	<b>Receiver Type</b>	<b>Comment</b>
R1	Residential	Detached dwellings to south of North Street, and residences and St Michaels Catholic Church and school to the east.
R2	Residential	Detached dwellings to north east, opposite Shoalhaven Street with some health and commercial and recreational uses.
PS	School	Shoalhaven Community Pre-School (future relocated site).
CC	Hospital	Cancer Centre overnight accommodation (part of the greater hospital site).



**Figure 1 – Site Map. Monitoring Locations and Surrounding Receivers**



### 3 MONITORING LOCATIONS AND DESCRIPTION

Refer to Figure 1 and photos below for monitoring locations.



**Figure 2 – HEX000171 --East Boundary Opposite Shoalhaven Street (left) and  
HEX000131 – North Boundary Near Block A and B (right)**



**Figure 3 – HEX000232 – West of Early Works Zone Near Block A**





**Figure 4 – HEX000592 – Pre-School Boundary Fence Near Outdoor Play Area**





**Figure 5 – HEX000733 – Near ICU and Loading Dock**



### 3.1 MONITORING PERIOD

This report presents the results of monitoring between 1/2/2025 and 28/2/2025.

Monitoring has been ongoing since 29<sup>th</sup> May 2023.

### 3.2 MONITORING EQUIPMENT

Dust monitoring was conducted using SiteHive Hexanode monitors. Monitors are programmed to continuously store noise data over every 15-minute period

## 4 DUST MONITORING

### 4.1 PROJECT DOCUMENTATION

Construction impacts to nearby development have been determined in the Construction Noise, Dust and Vibration Management Sub Plan (ref: 20230220.1/0506A/R1/VF, dated 05/06/2023)

#### 4.1.1 Dust Management Levels

Dust monitoring is conducted to measure mechanically generated respirable PM<sub>10</sub> dust particles (< 10µm) and PM<sub>2.5</sub> dust particles (< 2.5µm), which are generally understood to be the main health concern in airborne dust. The air quality limits are based on the standards outlined in Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure* and NSW EPA's air quality categories.

It should be noted that the dust monitoring results can be influenced by events such as fires, fogs and dust storms, thus the PM10 limit has an allowance of 5 days per year to account for the effects of these two effects. It is noted that site dust suppression systems using fine water sprays can affect the dust count of laser-based measurement systems and so too can pollen in Spring. The PM<sub>10</sub> and PM<sub>2.5</sub> goals are summarised below.

**Table 2 – PM<sub>10</sub> and PM<sub>2.5</sub> Goals (24-Hour Average)**

Pollutant	Averaging Time	Maximum Concentration
Particulate Matter PM <sub>10</sub>	24 hours	50 µg/m <sup>3</sup>
Particulate Matter PM <sub>2.5</sub>	24 hours	25 µg/m <sup>3</sup>

The EPA has air quality categories based on particle concentration over a one-hour average. These levels may be used to control site dust emissions. Typically, a project alert trigger level is set on the 'Poor' category level. **However, the assessment level is based on the 24-hour average.**

**Table 3 – PM<sub>10</sub> and PM<sub>2.5</sub> Goals (1-Hour Average)**

Pollutant	Air Quality Category (AQC)				
	Good	Fair	Poor	Very Poor	Extremely Poor
Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )	< 50	50-100	<b>100-200</b>	200-600	600 and above
Particulate Matter PM <sub>2.5</sub> (µg/m <sup>3</sup> )	< 25	25-50	<b>50-100</b>	100-300	300 and above

## 4.2 MONITORED DUST LEVELS

The following legend has been generated with reference to exceedances within the monitored dust levels as follows and applied to the tables below.

**RED** = CONSTRUCTION RELATED EXCEEDANCE

**BLUE** = EXCEEDANCES DURING WEATHER AFFECTED PERIODS

**GREY** = EXCEEDANCES DURING OUT OF HOURS

Where true exceedances are recorded, additional analysis has been provided in the discussion below.



#### 4.2.1 East Boundary Facing Shoalhaven Street (Monitor HEX-000171)

The daily average PM<sub>2.5</sub> and PM<sub>10</sub> concentration levels are presented below:

**Table 4 – East Boundary (HEX-000171) Daily Average PM<sub>10</sub> and PM<sub>2.5</sub> Concentration**

Date	24hr Average PM <sub>2.5</sub> and PM <sub>10</sub> Concentration					
	PM <sub>2.5</sub> Level (µg/m³)	PM <sub>2.5</sub> Limit (µg/m³)	Compliance	PM <sub>10</sub> Level (µg/m³)	PM <sub>10</sub> Limit (µg/m³)	Compliance
1/02/2025	9	25	Yes	26	50	Yes
2/02/2025	7		Yes	23		Yes
3/02/2025	11		Yes	39		Yes
4/02/2025	12		Yes	47		Yes
5/02/2025	23		Yes	71		Yes
6/02/2025	18		Yes	57		Yes
7/02/2025	10		Yes	42		Yes
8/02/2025	10		Yes	33		Yes
9/02/2025	6		Yes	21		Yes
10/02/2025	9		Yes	37		Yes
11/02/2025	7		Yes	40		Yes
12/02/2025	6		Yes	32		Yes
13/02/2025	13		Yes	45		Yes
14/02/2025	16		Yes	62		Yes
15/02/2025	11		Yes	37		Yes
16/02/2025	5		Yes	17		Yes
17/02/2025	7		Yes	43		Yes
18/02/2025	10		Yes	52		Yes
19/02/2025	13		Yes	58		Yes
20/02/2025	10		Yes	39		Yes
21/02/2025	10		Yes	47		Yes
22/02/2025	7		Yes	24		Yes
23/02/2025	6		Yes	21		Yes
24/02/2025	19		Yes	61		Yes
25/02/2025	13		Yes	46		Yes
26/02/2025	10		Yes	41		Yes
27/02/2025	10		Yes	44		Yes
28/02/2025	9		Yes	47		Yes

**RED** = CONSTRUCTION RELATED EXCEEDANCE LIKELY

**BLUE** = COMPLIES - EXCEEDANCES DURING WEATHER AFFECTED PERIODS

**GREY** = COMPLIES - EXCEEDANCES DURING OUT OF HOURS

#### 4.2.2 North Boundary Facing Block A & B (Monitor HEX-000130)

The daily average PM<sub>2.5</sub> and PM<sub>10</sub> concentration levels are presented below:

**Table 5 – North Boundary (HEX-000130) Daily Average PM<sub>10</sub> and PM<sub>2.5</sub> Concentration**

Date	24hr Average PM <sub>2.5</sub> and PM <sub>10</sub> Concentration					
	PM <sub>2.5</sub> Level (µg/m <sup>3</sup> )	PM <sub>2.5</sub> Limit (µg/m <sup>3</sup> )	Compliance	PM <sub>10</sub> Level (µg/m <sup>3</sup> )	PM <sub>10</sub> Limit (µg/m <sup>3</sup> )	Compliance
1/02/2025	2	25	Yes	83	50	Yes
2/02/2025	4		Yes	103		Yes
3/02/2025	3		Yes	69		Yes
4/02/2025	2		Yes	46		Yes
5/02/2025	2		Yes	45		Yes
6/02/2025	1		Yes	35		Yes
7/02/2025	2		Yes	36		Yes
8/02/2025	2		Yes	29		Yes
9/02/2025	3		Yes	44		Yes
10/02/2025	2		Yes	54		Yes
11/02/2025	3		Yes	42		Yes
12/02/2025	2		Yes	33		Yes
13/02/2025	2		Yes	26		Yes
14/02/2025	2		Yes	28		Yes
15/02/2025	2		Yes	25		Yes
16/02/2025	1		Yes	7		Yes
17/02/2025	0		Yes	4		Yes
18/02/2025	0		Yes	4		Yes
19/02/2025	1		Yes	11		Yes
20/02/2025	-		Yes	-		Yes
21/02/2025	2		Yes	33		Yes
22/02/2025	2		Yes	29		Yes
23/02/2025	1		Yes	10		Yes
24/02/2025	1		Yes	15		Yes
25/02/2025	1		Yes	16		Yes
26/02/2025	2		Yes	20		Yes
27/02/2025	1		Yes	13		Yes
28/02/2025	2		Yes	9		Yes

**RED** = CONSTRUCTION RELATED EXCEEDANCE LIKELY

**BLUE** = COMPLIES - EXCEEDANCES DURING WEATHER AFFECTED PERIODS

**GREY** = COMPLIES - EXCEEDANCES DURING OUT OF HOURS



#### 4.2.3 West of Early Works Zone (Monitor HEX-000232)

The daily average PM<sub>2.5</sub> and PM<sub>10</sub> concentration levels are presented below:

**Table 6 – West of Early Works (HEX-000232) Daily Average PM<sub>10</sub> and PM<sub>2.5</sub> Concentration**

Date	24hr Average PM <sub>2.5</sub> and PM <sub>10</sub> Concentration					
	PM <sub>2.5</sub> Level (µg/m³)	PM <sub>2.5</sub> Limit (µg/m³)	Compliance	PM <sub>10</sub> Level (µg/m³)	PM <sub>10</sub> Limit (µg/m³)	Compliance
1/02/2025	7	25	Yes	18	50	Yes
2/02/2025	6		Yes	17		Yes
3/02/2025	4		Yes	13		Yes
4/02/2025	11		Yes	31		Yes
5/02/2025	14		Yes	41		Yes
6/02/2025	8		Yes	21		Yes
7/02/2025	7		Yes	20		Yes
8/02/2025	7		Yes	21		Yes
9/02/2025	4		Yes	14		Yes
10/02/2025	5		Yes	17		Yes
11/02/2025	3		Yes	11		Yes
12/02/2025	2		Yes	11		Yes
13/02/2025	7		Yes	21		Yes
14/02/2025	5		Yes	17		Yes
15/02/2025	5		Yes	16		Yes
16/02/2025	2		Yes	8		Yes
17/02/2025	3		Yes	12		Yes
18/02/2025	3		Yes	13		Yes
19/02/2025	6		Yes	25		Yes
20/02/2025	5		Yes	20		Yes
21/02/2025	5		Yes	16		Yes
22/02/2025	4		Yes	12		Yes
23/02/2025	3		Yes	11		Yes
24/02/2025	10		Yes	29		Yes
25/02/2025	7		Yes	20		Yes
26/02/2025	5		Yes	17		Yes
27/02/2025	5		Yes	16		Yes
28/02/2025	4		Yes	16		Yes

**RED** = CONSTRUCTION RELATED EXCEEDANCE

**BLUE** = COMPLIES - EXCEEDANCES DURING WEATHER AFFECTED PERIODS

**GREY** = COMPLIES - EXCEEDANCES DURING OUT OF HOURS

#### 4.2.4 Pre-School Boundary (Monitor HEX-000592)

The daily average PM<sub>2.5</sub> and PM<sub>10</sub> concentration levels are presented below:

**Table 7 – Pre-School Boundary (HEX-000592) Daily Average PM<sub>10</sub> and PM<sub>2.5</sub> Concentration**

Date	24hr Average PM <sub>2.5</sub> and PM <sub>10</sub> Concentration					
	PM <sub>2.5</sub> Level (µg/m <sup>3</sup> )	PM <sub>2.5</sub> Limit (µg/m <sup>3</sup> )	Compliance	PM <sub>10</sub> Level (µg/m <sup>3</sup> )	PM <sub>10</sub> Limit (µg/m <sup>3</sup> )	Compliance
1/02/2025	5	25	Yes	13	50	Yes
2/02/2025	4		Yes	13		Yes
3/02/2025	5		Yes	21		Yes
4/02/2025	6		Yes	20		Yes
5/02/2025	11		Yes	30		Yes
6/02/2025	8		Yes	29		Yes
7/02/2025	5		Yes	19		Yes
8/02/2025	5		Yes	15		Yes
9/02/2025	3		Yes	9		Yes
10/02/2025	4		Yes	13		Yes
11/02/2025	3		Yes	12		Yes
12/02/2025	3		Yes	24		Yes
13/02/2025	7		Yes	24		Yes
14/02/2025	6		Yes	19		Yes
15/02/2025	5		Yes	17		Yes
16/02/2025	2		Yes	8		Yes
17/02/2025	3		Yes	10		Yes
18/02/2025	4		Yes	17		Yes
19/02/2025	6		Yes	27		Yes
20/02/2025	4		Yes	15		Yes
21/02/2025	5		Yes	22		Yes
22/02/2025	4		Yes	11		Yes
23/02/2025	4		Yes	9		Yes
24/02/2025	11		Yes	38		Yes
25/02/2025	6		Yes	20		Yes
26/02/2025	5		Yes	20		Yes
27/02/2025	5		Yes	24		Yes
28/02/2025	5		Yes	24		Yes

**RED** = CONSTRUCTION RELATED EXCEEDANCE

**BLUE** = COMPLIES - EXCEEDANCES DURING WEATHER AFFECTED PERIODS

**GREY** = COMPLIES - EXCEEDANCES DURING OUT OF HOURS



#### 4.2.5 Near ICU and Loading Dock (Monitor HEX-000733)

The daily average PM<sub>2.5</sub> and PM<sub>10</sub> concentration levels are presented below:

**Table 8 – ICU and Loading Dock (HEX-000733) Daily Average PM<sub>10</sub> and PM<sub>2.5</sub> Concentration**

Date	24hr Average PM <sub>2.5</sub> and PM <sub>10</sub> Concentration					
	PM <sub>2.5</sub> Level (µg/m³)	PM <sub>2.5</sub> Limit (µg/m³)	Compliance	PM <sub>10</sub> Level (µg/m³)	PM <sub>10</sub> Limit (µg/m³)	Compliance
1/02/2025	6	25	Yes	16	50	Yes
2/02/2025	5		Yes	13		Yes
3/02/2025	5		Yes	23		Yes
4/02/2025	7		Yes	23		Yes
5/02/2025	12		Yes	37		Yes
6/02/2025	9		Yes	24		Yes
7/02/2025	6		Yes	23		Yes
8/02/2025	5		Yes	16		Yes
9/02/2025	4		Yes	11		Yes
10/02/2025	5		Yes	16		Yes
11/02/2025	4		Yes	15		Yes
12/02/2025	4		Yes	17		Yes
13/02/2025	9		Yes	33		Yes
14/02/2025	6		Yes	21		Yes
15/02/2025	6		Yes	17		Yes
16/02/2025	3		Yes	10		Yes
17/02/2025	4		Yes	21		Yes
18/02/2025	8		Yes	37		Yes
19/02/2025	9		Yes	43		Yes
20/02/2025	7		Yes	28		Yes
21/02/2025	6		Yes	28		Yes
22/02/2025	4		Yes	12		Yes
23/02/2025	4		Yes	10		Yes
24/02/2025	11		Yes	40		Yes
25/02/2025	9		Yes	31		Yes
26/02/2025	8		Yes	32		Yes
27/02/2025	9		Yes	35		Yes
28/02/2025	7		Yes	34		Yes

**RED** = CONSTRUCTION RELATED EXCEEDANCE

**BLUE** = COMPLIES - EXCEEDANCES DURING WEATHER AFFECTED PERIODS

**GREY** = COMPLIES - EXCEEDANCES DURING OUT OF HOURS

## 4.3 DISCUSSION

### 4.3.1 East Boundary Opposite Shoalhaven Street Residences (HEX-000171)

- During the monitoring period, PM<sub>2.5</sub> dust levels at the monitoring location were found to be within the maximum concentration permitted by Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure*.
- During the monitoring period, PM<sub>10</sub> dust levels at the monitoring location were generally found to be within the maximum concentration permitted by Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure*.
- Construction related exceedances of the daily average occurred on the following dates and categories:
  - 18<sup>th</sup> & 19<sup>th</sup> February - PM<sub>10</sub>
    - The dust level averaged over the 24-hour period was above the recommended level on this date.
    - An analysis of the dust levels indicates that the exceedance was likely attributed to general construction activities near to the monitor.
    - We note some stronger westerly winds (>5mm/s) were also prevalent on this date during and outside of site hours and may have contributed to the dust exceedances.
- On all other dates, exceedances of the daily average occurred largely during weather affected periods (high winds, rain).

### 4.3.2 North Boundary Near Block A and B (HEX-000130)

- During the monitoring period, PM<sub>2.5</sub> dust levels at the monitoring location were found to be within the maximum concentration permitted by Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure*.
- During the monitoring period, PM<sub>10</sub> dust levels at the monitoring location were generally found to be within the maximum concentration permitted by Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure*.

### 4.3.3 West of Early Works Zone Near Block A (HEX-000232)

- During the monitoring period, PM<sub>2.5</sub> dust levels at the monitoring location were found to be within the maximum concentration permitted by Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure*.
- During the monitoring period, PM<sub>10</sub> dust levels at the monitoring location were generally found to be within the maximum concentration permitted by Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure*.

### 4.3.4 Pre-School Boundary Near Outdoor Play Area (HEX-000592)

- During the monitoring period, PM<sub>2.5</sub> dust levels at the monitoring location were found to be within the maximum concentration permitted by Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure*.
- During the monitoring period, PM<sub>10</sub> dust levels at the monitoring location were generally found to be within the maximum concentration permitted by Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure*.

#### 4.3.5 Near ICU and Loading Dock (HEX-000733)

- During the monitoring period, PM<sub>2.5</sub> dust levels at the monitoring location were found to be within the maximum concentration permitted by Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure*.
- During the monitoring period, PM<sub>10</sub> dust levels at the monitoring location were generally found to be within the maximum concentration permitted by Department of the Environment's *National Environment Protection (Ambient Air Quality) Measure*.

#### 4.4 MANAGEMENT OF DUST LEVELS

##### **General Notes:**

- It should be noted that the measured dust levels will also be affected by meteorological events outside the project site, such as heavy rain and wind, high humidity, dust storms, bush fires, high pollen count and the like.

##### **Response to Exceedances**

The general response procedures adopted by JH are as follows:

- The project team is notified via SMS alert messages when hourly average dust levels are exceeded
- Methodology and works across the project site and near to the specific monitoring location are recorded.
- Where monitoring locations are confirmed to be potentially impacted by the adjacent works (i.e., where exceedance notifications are received but no works are occurring near to the monitoring location – indicating alerts are as a result of external impacts – refer general notes in Section 4.3.4), work methodology was investigated and mistor(s) are deployed.

Acoustic Logic confirms JH has implemented best practices as well as reasonable and feasible mitigation measures in response to dust exceedances over the majority of this monitoring period.

A review of works on the days that led to exceedance of dust levels should be carried out and the following additional recommendations for ongoing dust management should be implemented:

- Loose soil and/or dusty stockpiles should be covered with tarpaulin/plastic sheeting outside of working hours and during extended periods where not in use.
- Minimisation/relocation of stockpiles away from dust-sensitive receivers to minimise potential for disturbance due to prevailing winds.
- Additional dust suppression methods such as directed water sprays directly onto excavation equipment and work areas should be implemented where alternative methodology cannot be found.



## 5 CONCLUSION

Dust monitoring has been conducted at different locations for the Shoalhaven Hospital Redevelopment between 1/2/2025 and 28/2/2025. For this monitoring period, we note the following:

- Hexanode HEX-000171 at the East Boundary - PM<sub>2.5</sub> and PM<sub>10</sub> dust levels were generally within the criteria during this monitoring period.
- Hexanode HEX-000130 at the North Boundary - PM<sub>2.5</sub> and PM<sub>10</sub> dust levels were generally within the criteria during this monitoring period.
- Hexanode HEX-000232 at the West of Early Works Zone - PM<sub>2.5</sub> and PM<sub>10</sub> dust levels were generally within the criteria during this monitoring period.
- Hexanode HEX-000592 at the Preschool - PM<sub>2.5</sub> and PM<sub>10</sub> dust levels were generally within the criteria during this monitoring period.
- Hexanode HEX-000733 Near the ICU and Loading Dock - PM<sub>2.5</sub> and PM<sub>10</sub> dust levels were generally within the criteria during this monitoring period.

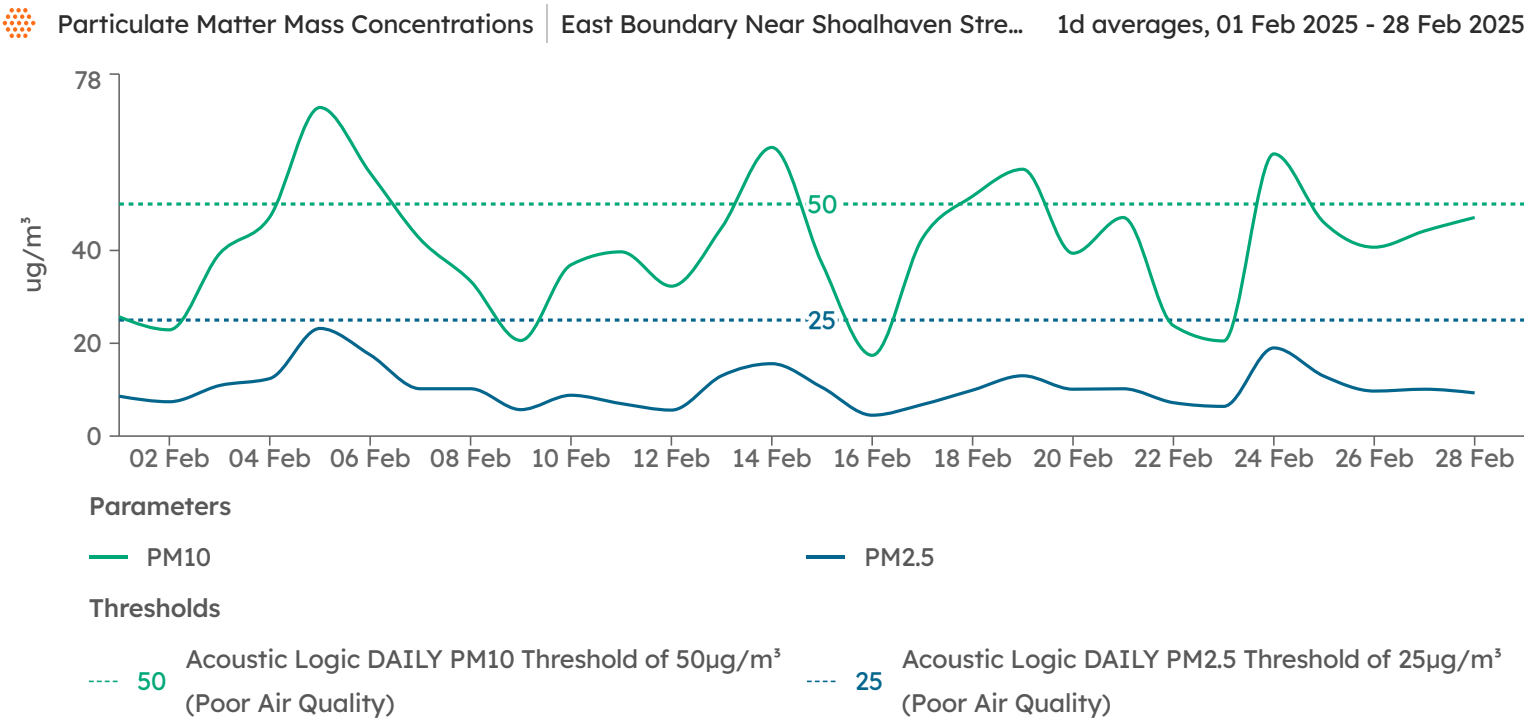
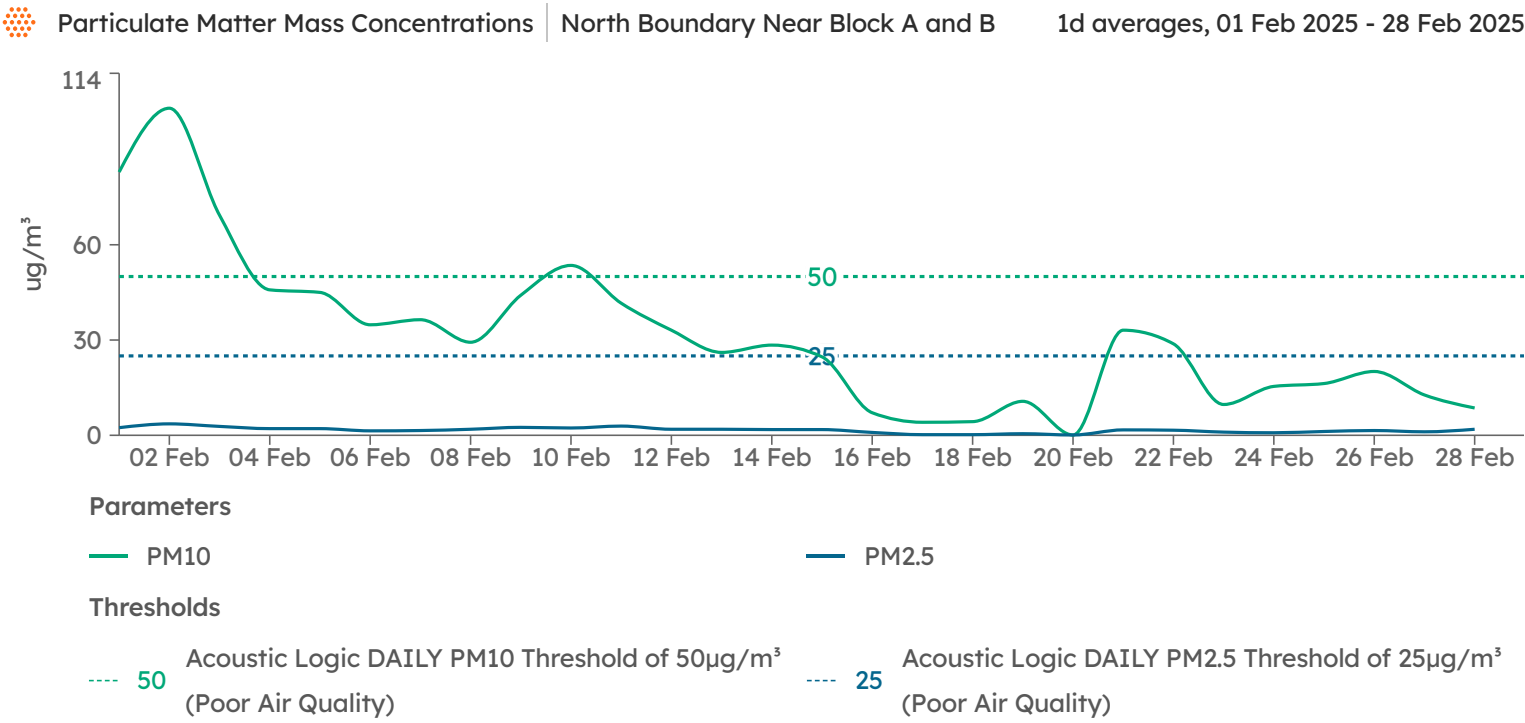
We trust this information is satisfactory. Please contact us should you have any further queries.

Yours faithfully,

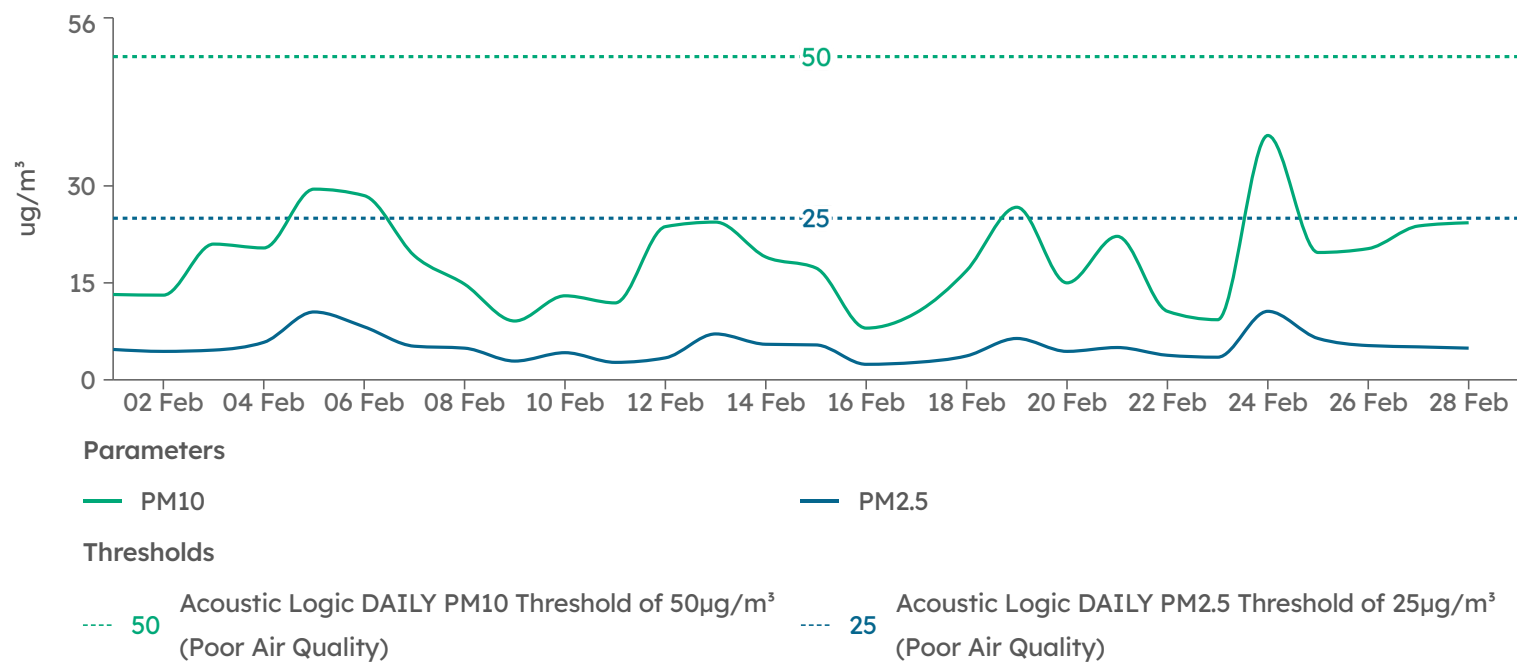
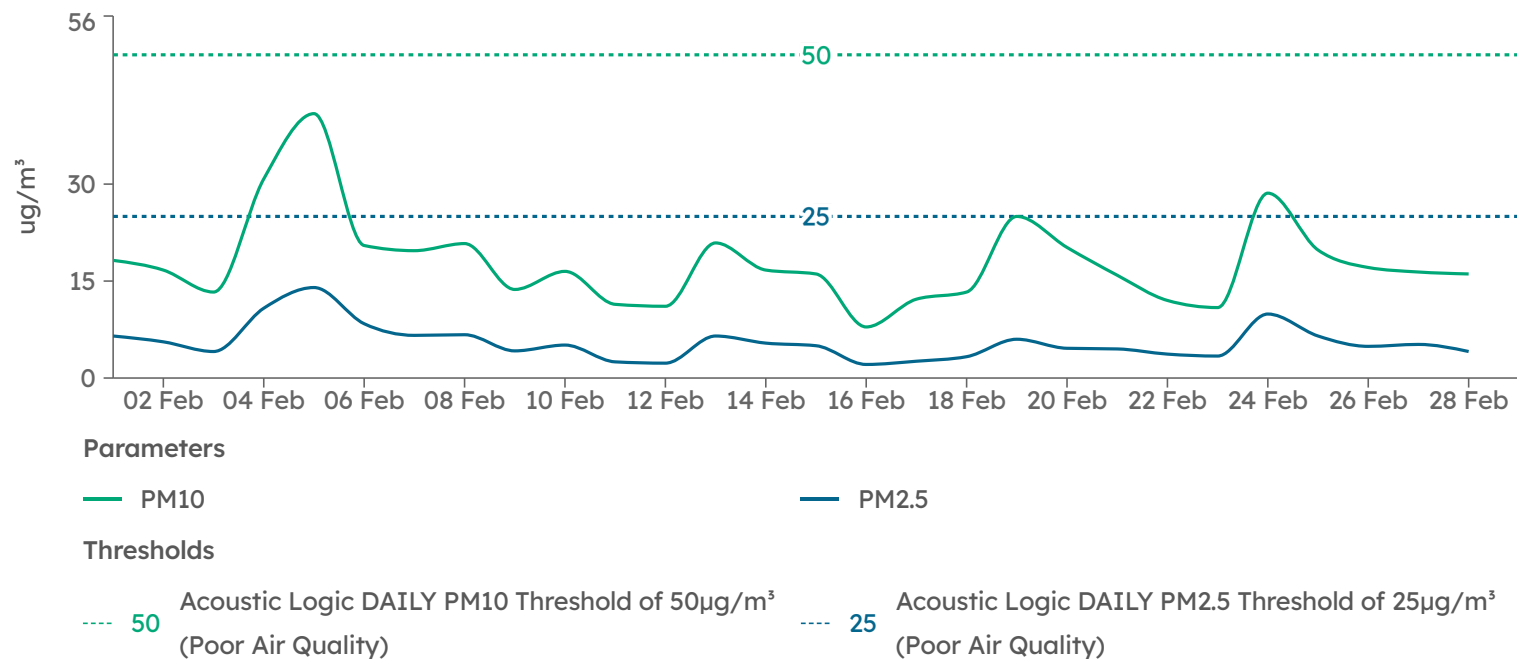


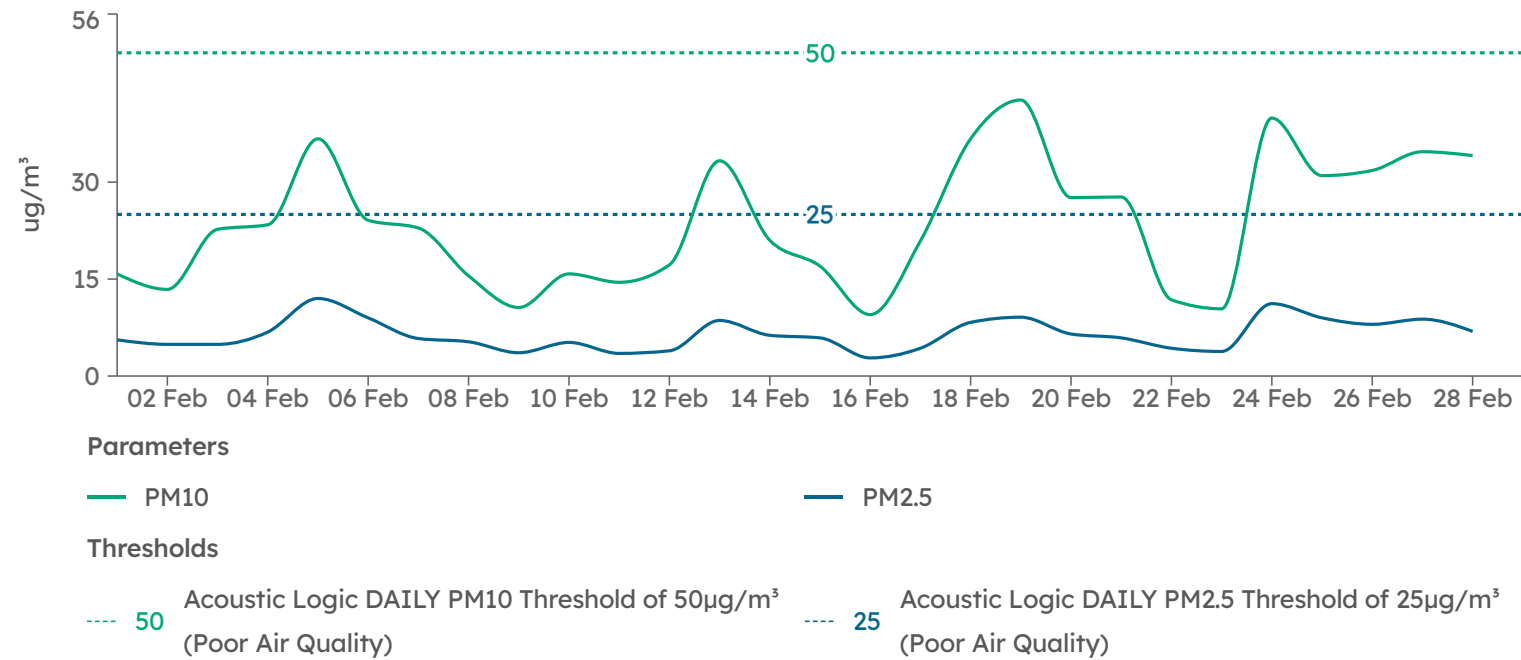
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**APPENDIX A – DUST MONITORING GRAPHS**









Device Details				
Device Serial	Monitoring Points	Model	Calibration Date	Calibration Due
HEX-000171	East Boundary Near Shoalhaven Street	SiteHive Hexanode	03 Apr 2023	03 Apr 2025
HEX-000130	North Boundary Near Block A and B	SiteHive Hexanode	21 Apr 2023	21 Apr 2025
HEX-000232	West of Early Works Zone	SiteHive Hexanode	29 May 2023	29 May 2025
HEX-000401	-	SiteHive Hexanode	16 Aug 2024	16 Aug 2026
HEX-000592	Near Pre-School	SiteHive Hexanode	11 Jun 2024	11 Jun 2026
HEX-000733	Near ICU and Loading Dock	SiteHive Hexanode	13 Nov 2024	13 Nov 2026