

**Iluka Resources Limited- Balranald Mineral Sands Mine  
Monthly Particulate Monitoring (PM2.5 and PM10)**



The below air quality monitoring results have been obtained in accordance with the Balranald Mineral Sands Mine Air Quality Management Plan and assessed against the air quality criteria outlined in Table 4 of the NSW Development Consent SSD-5285.

<b>Table 4- Short term impact assessment criterion for particulate matter</b>		
<b>Pollutant</b>	<b>Averaging period</b>	<b>Criterion</b>
Particulate matter < 10µm (PM10)	24 Hour	50 µg/m <sup>3</sup>
Particulate matter < 2.5µm (PM2.5)	24 Hour	25 µg/m <sup>3</sup>

Due to hot and dry weather conditions with long frequent periods of high winds, there are a number of exceedance days (6) in particulate levels recorded on the monitoring station. However, no contribution from site activities was observed on either days where the criteria was exceeded. Detailed information can be found in below Table.

Figure 1 and 2 represents the 24-hour average PM2.5 and PM10 performance in November 2025 respectively against the limits as mentioned in Table 4.

Please see the comment section of the individual days for detailed information in the table below.

<b>Continuous Particulate Monitor (CPM1) NSW Environment Protection Licence 20795 Point #13</b>				
<b>Date Time</b>	<b>PM2.5</b>	<b>PM10</b>	<b>Compliant (Yes/No)</b>	<b>Comments</b>
	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>		
24:00 01/11/2025	4.28	11.06	Yes	
24:00 02/11/2025	4.97	16.71	Yes	
24:00 03/11/2025	1.46	11.1	Yes	
24:00 04/11/2025	3.64	8.28	Yes	
24:00 05/11/2025	5.69	13.08	Yes	
24:00 06/11/2025	3.54	9.8	Yes	
24:00 07/11/2025	6.46	15.75	Yes	
24:00 08/11/2025	3.21	20.81	Yes	
24:00 09/11/2025	2.66	8.3	Yes	
24:00 10/11/2025	2.27	7.58	Yes	
24:00 11/11/2025	2.79	9.76	Yes	
24:00 12/11/2025	4.67	12.55	Yes	
24:00 13/11/2025	4.1	17.2	Yes	
24:00 14/11/2025	3.99	30.22	Yes	
24:00 15/11/2025	6.67	59.9	No	Period of exceedance - 12:00h to 03:00h and 16:00h to 23:00h on 15/11/2025. Average wind speed – 12.6 km/hr (up to 17.2 km/h)  Wind direction – predominantly westerly and north westerly winds.

**Iluka Resources Limited- Balranald Mineral Sands Mine  
Monthly Particulate Monitoring (PM2.5 and PM10)**



<b>Continuous Particulate Monitor (CPM1) NSW Environment Protection Licence 20795 Point #13</b>				
<b>Date Time</b>	<b>PM2.5</b>	<b>PM10</b>	<b>Compliant (Yes/No)</b>	<b>Comments</b>
				Considering wind was not blowing from the direction of site, any impact on dust levels recorded at the monitoring station cannot be attributed to the site activities.
24:00 16/11/2025	6.73	48.57	Yes	
24:00 17/11/2025	6.01	52.57	No	<p>Period of exceedance - 13:00h to 21:00h on 17/11/2025. Average wind speed – 21.8 km/hr (up to 25 km/h)</p> <p>Wind direction – predominantly westerly winds.</p> <p>Considering wind was not blowing from the direction of site, any impact on dust levels recorded at the monitoring station cannot be attributed to the site activities.</p>
24:00 18/11/2025	6.23	101.19	No	<p>Period of exceedance - 10:00h 18/11/2025 to 6:00h on 19/11/2025. Average wind speed – 17.5 km/hr (up to 27 km/h)</p> <p>Wind direction – predominantly westerly winds turning to south westerly winds at 20:00h on 19/11/2025.</p> <p>Considering wind was not blowing from the direction of site, any impact on dust levels recorded at the monitoring station cannot be attributed to the site activities.</p>
24:00 19/11/2025	6.72	95.37	No	<p>Period of exceedance - 11:00h to 22:00h on 19/11/2025. Average wind speed – 8.6 km/hr (up to 12 km/h)</p> <p>Wind direction – predominantly westerly winds.</p> <p>Considering wind was not blowing from the direction of site, any impact on dust levels recorded at the monitoring station cannot be attributed to the site activities.</p>
24:00 20/11/2025	14.51	170.43	No	<p>Period of exceedance - 10:00h to 23:00h on 20/11/2025. Average wind speed – 18.1 km/hr (up to 22 km/h)</p> <p>Wind direction – predominantly south westerly winds.</p>

**Iluka Resources Limited- Balranald Mineral Sands Mine  
Monthly Particulate Monitoring (PM2.5 and PM10)**



Continuous Particulate Monitor (CPM1) NSW Environment Protection Licence 20795 Point #13				
Date Time	PM2.5	PM10	Compliant (Yes/No)	Comments
				Considering wind was not blowing from the direction of site, any impact on dust levels recorded at the monitoring station cannot be attributed to the site activities.
24:00 21/11/2025	3.32	13.46	Yes	
24:00 22/11/2025	6.47	20.44	Yes	
24:00 23/11/2025	7.05	11.3	Yes	
24:00 24/11/2025	6.92	26.56	Yes	
24:00 25/11/2025	4.97	18.75	Yes	
24:00 26/11/2025	10.83	82.66	No	Period of exceedance - 12:00h to 21:00h on 26/11/2025. Average wind speed – 23.5 km/hr (up to 30 km/h)  Wind direction – predominantly westerly winds.  Considering wind was not blowing from the direction of site, any impact on dust levels recorded at the monitoring station cannot be attributed to the site activities.
24:00 27/11/2025	3.85	19.68	Yes	
24:00 28/11/2025	6.23	17.09	Yes	
24:00 29/11/2025	-	-	N/A	Data not available due to technical issues with the monitoring station. Issues were resolved on 30/11/2025.
24:00 30/11/2025	3	9.75	Yes	

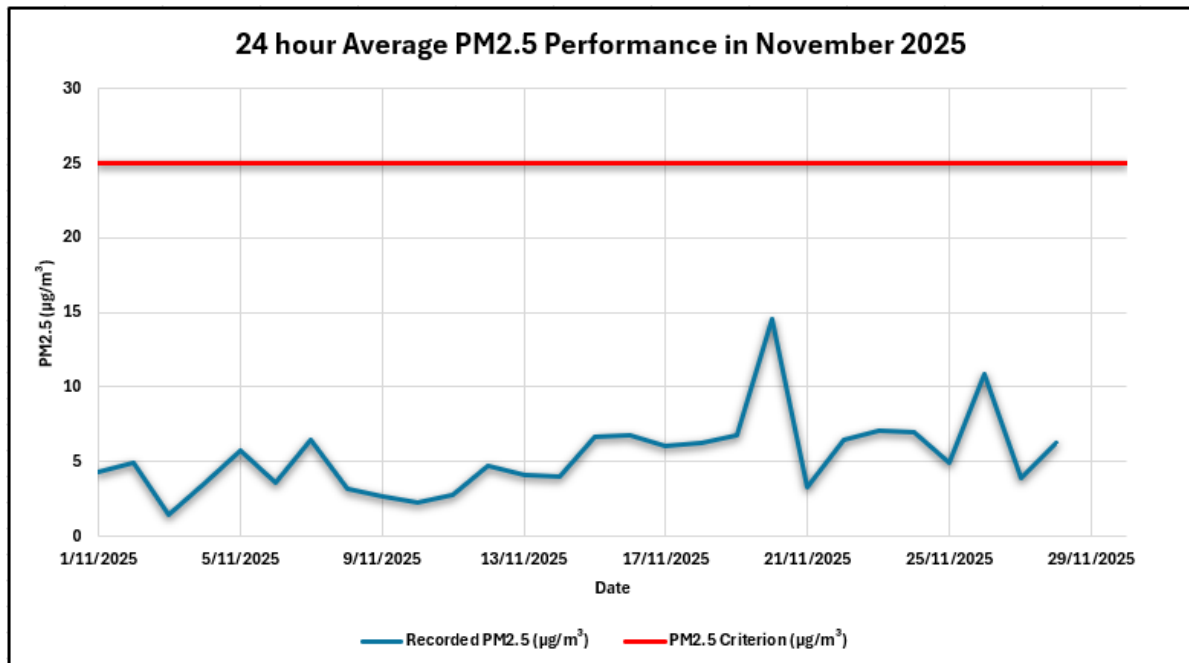


Figure 1 – 24-hour Average PM2.5 Performance in November 2025

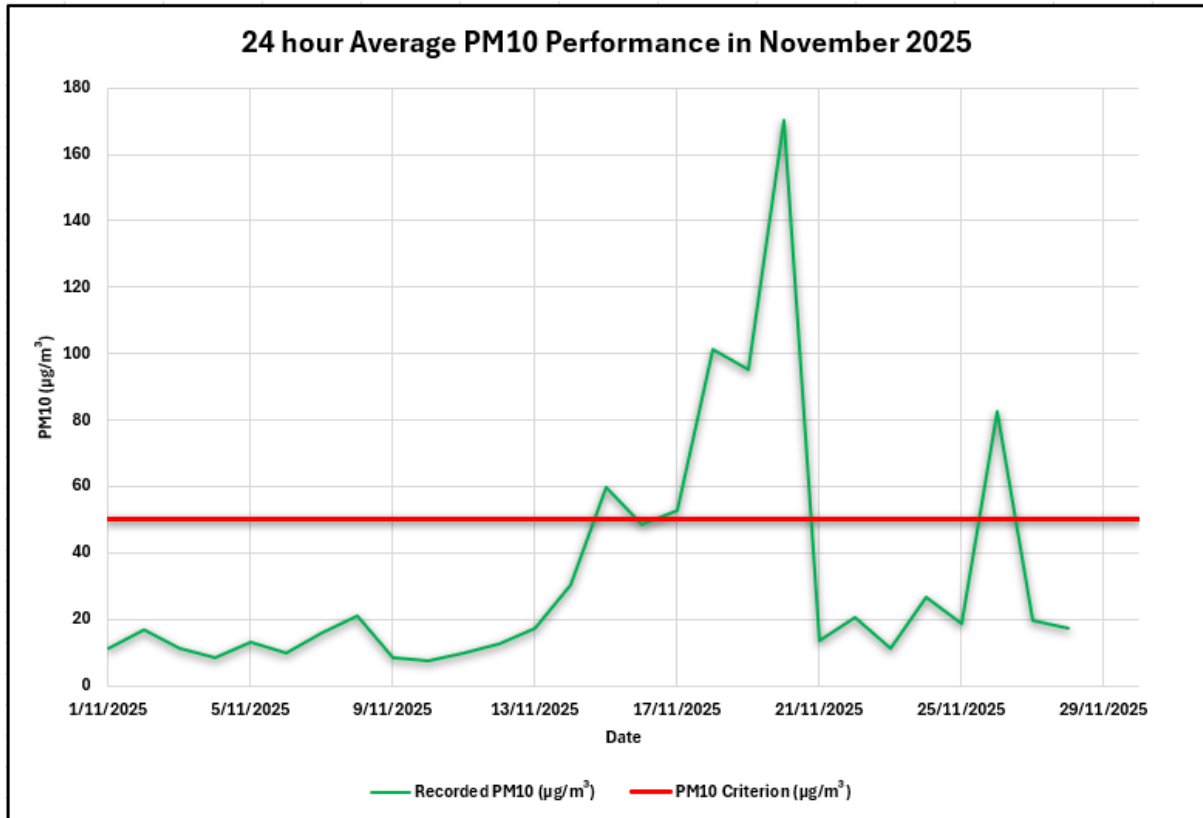


Figure 2 – 24-hour Average PM10 Performance in November 2025