

**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.

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

The monitoring station recorded only one (1) exceedance day in particulate levels throughout the month. Upon analysis, this exceedance was determined to be not caused by the site-specific activities. Detailed information can be found in below Table. Additionally, internal power outage on 28th and 29th of September resulted in operational downtime at the monitoring station leading to no data record for those two days.

Figure 1 and 2 represents the 24-hour average PM2.5 and PM10 performance in September 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.

Continuous Particulate Monitor (CPM1) NSW Environment Protection Licence 20795 Point #13				
Date Time	PM2.5	PM10	Compliant (Yes/No)	Comments
	µg/m³	µg/m³		
24:00 01/09/2025	3.71	3.57	Yes	
24:00 02/09/2025	3.39	5.85	Yes	
24:00 03/09/2025	4.42	8.11	Yes	
24:00 04/09/2025	6.84	12.27	Yes	
24:00 05/09/2025	2.73	10.47	Yes	
24:00 06/09/2025	7.45	26.25	Yes	
24:00 07/09/2025	15.84	66.28	No	Period of exceedance - 17:00h 07/09/2025 to 02:00h 08/09/2025. Average wind speed – 10.5 km/hr (up to 19.08 km/h) Wind direction – swirling winds (N-NW-W-SE-SW) Considering wind was not blowing from the site, any impact on dust levels recorded at the monitoring station cannot be attributed to the site activities.
24:00 08/09/2025	7.73	18.19	Yes	
24:00 09/09/2025	2.28	9.92	Yes	
24:00 10/09/2025	0.79	3.72	Yes	
24:00 11/09/2025	2.04	3.94	Yes	
24:00 12/09/2025	1.91	3.05	Yes	
24:00 13/09/2025	3.54	3.84	Yes	

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Continuous Particulate Monitor (CPM1) NSW Environment Protection Licence 20795 Point #13				
Date Time	PM2.5	PM10	Compliant (Yes/No)	Comments
24:00 14/09/2025	1.07	3.41	Yes	
24:00 15/09/2025	4.54	16.69	Yes	
24:00 16/09/2025	5.09	8.05	Yes	
24:00 17/09/2025	2.48	10.66	Yes	
24:00 18/09/2025	5.13	9.37	Yes	
24:00 19/09/2025	5.79	13.61	Yes	
24:00 20/09/2025	5.03	16.91	Yes	
24:00 21/09/2025	2.37	4.8	Yes	
24:00 22/09/2025	4.53	10.64	Yes	
24:00 23/09/2025	5.96	11.33	Yes	
24:00 24/09/2025	5.31	11.32	Yes	
24:00 25/09/2025	5.04	12.06	Yes	
24:00 26/09/2025	6.4	28.41	Yes	
24:00 27/09/2025	7.6	13.64	Yes	
24:00 28/09/2025	-	-	N/A	No data recorded due to internal power outage.
24:00 29/09/2025	-	-	N/A	No data recorded due to internal power outage.
24:00 30/09/2025	3.65	26.13	Yes	

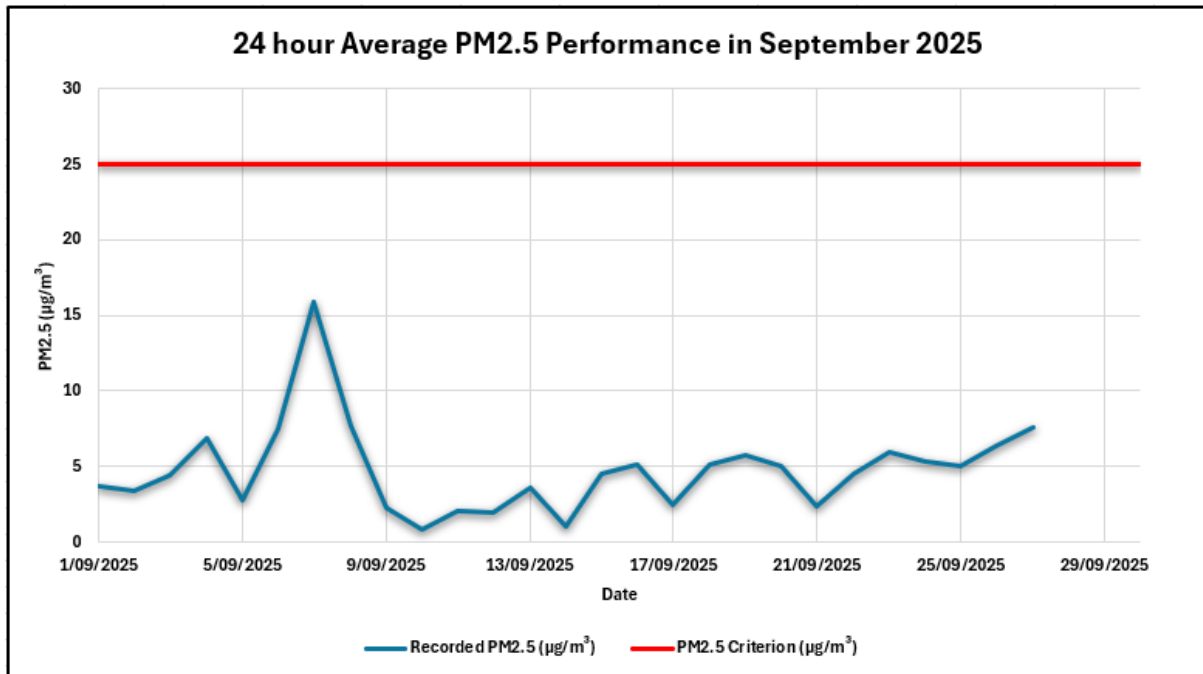


Figure 1 – 24-hour Average PM2.5 Performance in September 2025

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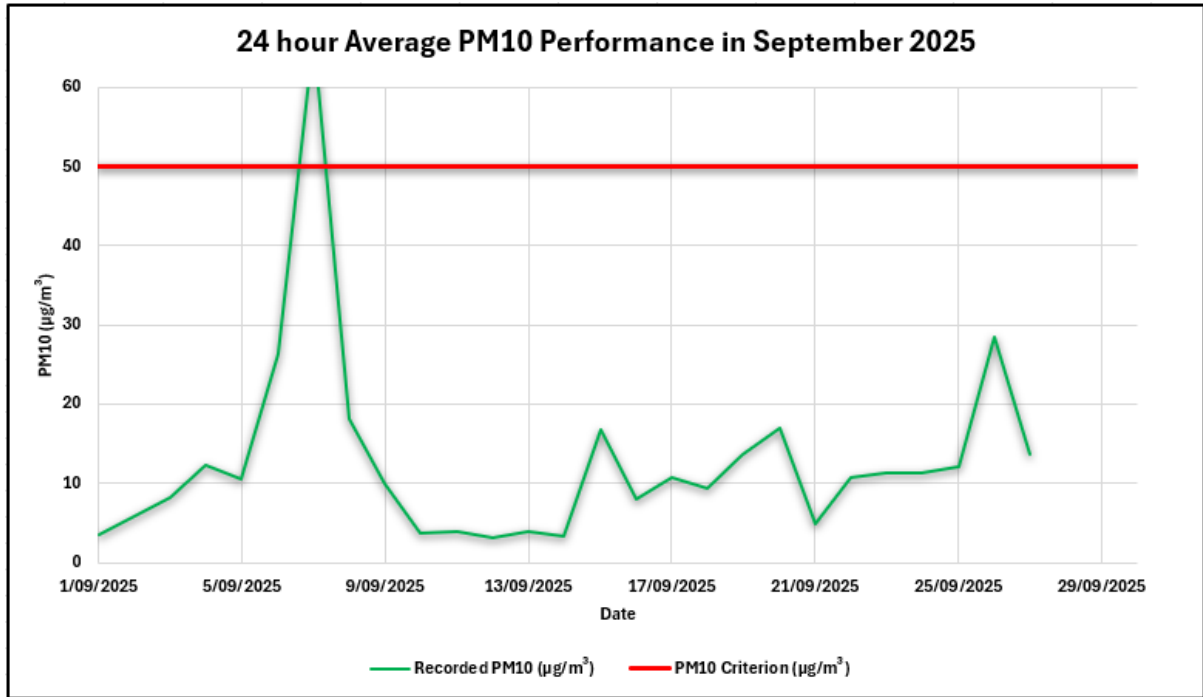


Figure 2 – 24-hour Average PM10 Performance in September 2025