

**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>

<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>		
01/12/2023 24:00	4.24	7.21	Yes	
02/12/2023 24:00	5.41	9.63	Yes	
03/12/2023 24:00	2.44	5.81	Yes	
04/12/2023 24:00	4.16	10.01	Yes	
05/12/2023 24:00	4.91	18.19	Yes	
06/12/2023 24:00	6.41	24.04	Yes	
07/12/2023 24:00	5.56	36.88	Yes	
08/12/2023 24:00	15.03	47.49	Yes	
09/12/2023 24:00	11.8	65.72	No	Wind speeds were recorded up to 33.9km/h with an average speed of 29.1km/h from a SSW direction during 17:00 to 21:00 on the 9/12/23. These windy conditions have caused temporary elevated PM10 dust levels during this period (Ave 167.41 µg/m <sup>3</sup> and max 241.57 µg/m <sup>3</sup> ). Sheep have also been known to be in the area.
10/12/2023 24:00	5.63	10.5	Yes	
11/12/2023 24:00	14.71	46.83	Yes	
12/12/2023 24:00	13.12	29.79	Yes	
13/12/2023 24:00	9.41	19.87	Yes	
14/12/2023 24:00	4.39	10.95	Yes	
15/12/2023 24:00	3.01	9.81	Yes	
16/12/2023 24:00	3.33	11.44	Yes	
17/12/2023 24:00	5.24	14.97	Yes	
18/12/2023 24:00	4.88	25.01	Yes	
19/12/2023 24:00	3.46	33.24	Yes	
20/12/2023 24:00	3.46	25.71	Yes	

**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>
21/12/2023 24:00	5.71	17.65	Yes	
22/12/2023 24:00	7.21	19.8	Yes	
23/12/2023 24:00	4.51	7.24	Yes	
24/12/2023 24:00	2.33	4.85	Yes	
25/12/2023 24:00	3.12	4.21	Yes	
26/12/2023 24:00	0.94	3.43	Yes	
27/12/2023 24:00	1.69	6.23	Yes	
28/12/2023 24:00	2.15	6.98	Yes	
29/12/2023 24:00	4.22	5.71	Yes	
30/12/2023 24:00	1.23	8.45	Yes	
31/12/2023 24:00	5.81	13.38	Yes	