

**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

Continuous Particulate Monitor (CPM1) NSW Environment Protection Licence 20795 Point #13				
Date Time	PM2.5	PM10	Compliant (Yes/No)	Comments
	µg/m³	µg/m³		
01/02/2024 24:00	-	-		Power outage
02/02/2024 24:00	4.5	13.22	Yes	
03/02/2024 24:00	5.49	18.33	Yes	
04/02/2024 24:00	6.06	26.39	Yes	
05/02/2024 24:00	6.81	45.87	Yes	
06/02/2024 24:00	1.02	14.28	Yes	
07/02/2024 24:00	4.33	11.88	Yes	
08/02/2024 24:00	6.05	13.04	Yes	
09/02/2024 24:00	5.66	21.23	Yes	
10/02/2024 24:00	4.06	12.62	Yes	
11/02/2024 24:00	5.95	17.14	Yes	
12/02/2024 24:00	5.11	13.79	Yes	
13/02/2024 24:00	10.99	44.33	Yes	
14/02/2024 24:00	2.04	18.66	Yes	
15/02/2024 24:00	5.08	24.33	Yes	
16/02/2024 24:00	5.4	19.38	Yes	
17/02/2024 24:00	7.76	22.27	Yes	
18/02/2024 24:00	6.25	16.87	Yes	
19/02/2024 24:00	2.56	16.42	Yes	
20/02/2024 24:00	5.79	25.59	Yes	
21/02/2024 24:00	6.19	23.06	Yes	
22/02/2024 24:00	2.48	13.36	Yes	
23/02/2024 24:00	6.94	58.97	No	An average wind speed of 25.53km/h and gusts of up to 31.93km/h from SSW direction between 11:00 and 20:00 have resulted in elevated wind speed which has caused an increase in raised dust attributing to the elevated average PM10 level.

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Continuous Particulate Monitor (CPM1) NSW Environment Protection Licence 20795 Point #13				
Date Time	PM2.5	PM10	Compliant (Yes/No)	Comments
24/02/2024 24:00	21.53	40.04	Yes	
25/02/2024 24:00	8.44	22.56	Yes	
26/02/2024 24:00	13.76	32.4	Yes	
27/02/2024 24:00	7.14	27.57	Yes	
28/02/2024 24:00	5.91	25.8	Yes	
29/02/2024 24:00	9.86	32.85	Yes	