

Quarterly Dust Monitoring Results

Q1 2024



Date of this report	22/5/2024
Environmental Personnel Submitting Report	Les Merton Environment and Community Superintendent Cameby Downs Mine Phone: (07) 4665 8621
Relevant Environmental Authority Conditions	EPML00900113 Condition B2 (e); quarterly reporting of the measured dust deposition rates and PM10 concentrations to a publicly available website
Period	1/1/2024 – 2/4/2024

Table 1: Quarter 1 2024 PM10 Concentrations

Date	PM10 24 hour Average (µg/m³)
1/1/2024	5.8000
2/1/2024	6.4000
3/1/2024	2.9000
4/1/2024	6.6000
5/1/2024	8.6000
6/1/2024	5.8000
7/1/2024	5.0000
8/1/2024	9.1000
9/1/2024	4.8000
10/1/2024	5.3000
11/1/2024	6.1000
12/1/2024	6.2000
13/1/2024	8.3000
14/1/2024	6.2000
15/1/2024	7.2000
16/1/2024	6.6000
17/1/2024	2.5000
18/1/2024	4.6000
19/1/2024	5.7000

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Table 1: Quarter 1 2024 PM10 Concentrations

	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
20/1/2024	6.0000
21/1/2024	6.6000
22/1/2024	5.5000
23/1/2024	6.5000
24/1/2024	9.7000
25/1/2024	8.9000
26/1/2024	9.2000
27/1/2024	4.6000
28/1/2024	8.2000
29/1/2024	5.5000
30/1/2024	3.1000
31/1/2024	1.5000
1/2/2024	8.2000
2/2/2024	7.2000
3/2/2024	8.7000
4/2/2024	9.8000
5/2/2024	9.2000
6/2/2024	8.5000
7/2/2024	8.5000
8/2/2024	9.7000
9/2/2024	4.6000
10/2/2024	2.5000
11/2/2024	5.6000
12/2/2024	4.7000
13/2/2024	11.4000
14/2/2024	6.3000
15/2/2024	4.9000

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Table 1: Quarter 1 2024 PM10 Concentrations

	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
16/2/2024	6.5000
17/2/2024	4.3000
18/2/2024	5.7000
19/2/2024	7.7000
20/2/2024	6.5000
21/2/2024	7.9000
22/2/2024	8.1000
23/2/2024	5.9000
24/2/2024	9.3000
25/2/2024	8.1000
26/2/2024	9.6000
27/2/2024	5.5000
28/2/2024	6.9000
29/2/2024	9.6000
1/3/2024	15.0000
2/3/2024	12.9000
3/3/2024	33.7000
4/3/2024	9.9000
5/3/2024	8.2000
6/3/2024	8.9000
7/3/2024	9.0000
8/3/2024	6.4000
11/3/2024	9.2000
12/3/2024	8.6000
13/3/2024	9.0000
14/3/2024	14.9000
16/3/2024	13.1000

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Table 1: Quarter 1 2024 PM10 Concentrations

	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
17/3/2024	9.8000
18/3/2024	6.9000
19/3/2024	6.4000
20/3/2024	9.0000
21/3/2024	35.8000
22/3/2024	9.7000
23/3/2024	8.5000
24/3/2024	9.5000
25/3/2024	6.1000
26/3/2024	2.3000
29/3/2024	4.7000
30/3/2024	6.2000
31/3/2024	4.2000

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Table 2: Quarter 1 2024 Depositional Dust Monitoring Data

	CDG1			CDG2			CDG3			CDG4		CDG5			CDG6		
	31-01-2024	29-02-2024	02-04-2024	31-01-2024	29-02-2024	02-04-2024	31-01-2024	29-02-2024	02-04-2024	31-01-2024	29-02-2024	31-01-2024	29-02-2024	02-04-2024	31-01-2024	29-02-2024	02-04-2024
Depositional Dust																	
Ash Content - Monthly (g/m ² /month)	0.1	<0.1	0.4	0.5	0.4	0.4	0.5	0.4	1.5	0.8	0.4	0.3	0.3	0.7	0.2	0.1	0.1
Ash Content (mg)	2	<2	8	9	6	7	9	6	30	14	7	5	5	13	3	2	2
Combustible Matter (g/m ² /month)	0.4	0.3	0.1	0.3	0.1	0.2	<0.1	0.5	0.4	<0.1	0.1	<0.1	0.7	0.2	0.3	0.2	0.2
Combustible Matter (mg)	6	5	2	5	3	4	<2	10	6	<2	<2	<2	12	5	5	3	4
Calculated Rainfall (mm)	114	25	140	106	21	139	98	18	142	125	13	97	21	114	73	18	122
Volume	2020	439	2470	1870	366	2450	1740	313	2510	2210	230	1710	371	2010	1280	314	2160
Total Soluble Matter (g/m ² /month)	2.8	2.2	2.4	0.1	<0.1	1.3	0.2	0.4	0.9	2.5	<0.1	1.1	0.4	1.0	0.9	2.9	0.2
Total Soluble Matter (mg)	49	37	46	<2	<2	26	4	7	18	42	<2	19	6	19	16	49	3
Total Insoluble Matter (g/m ² /month)	0.5	0.3	0.5	0.8	0.5	0.6	0.5	0.9	1.9	0.8	0.5	0.3	1.0	0.9	0.5	0.3	0.3
Total Insoluble Matter (mg)	8	5	10	14	9	11	9	16	36	14	8	5	17	18	8	5	6
Total Solids (g/m ² /month)	3.3	2.5	2.9	0.9	0.5	1.9	0.7	1.3	2.8	3.3	0.5	1.4	1.4	1.9	1.4	3.2	0.5
Total Solids (mg)	57	42	56	15	9	37	13	23	54	56	8	24	23	37	24	54	9
Total Insoluble Matter (Average) (g/m ² /day)	0.0167	0.0100	0.0167	0.0267	0.0167	0.0200	0.0167	0.0300	0.0633	0.0267	0.0167	0.0100	0.0333	0.0300	0.0167	0.0100	0.0100