

# Quarterly Dust Monitoring Results

Q4 2022



<b>Date of this report</b>	1/02/2023
<b>Environmental Personnel Submitting Report</b>	Les Merton Environment and Community Superintendent Cameby Downs Mine Phone: (07) 4665 8621
<b>Relevant Environmental Authority Conditions</b>	EPML00900113 Condition B2 (e); quarterly reporting of the measured dust deposition rates and PM10 concentrations to a publicly available website
<b>Period</b>	1/10/2022 - 31/12/2022

Table 1: Quarter 4 2022 PM10 Concentrations

<b>Date</b>	<b>PM10 24 hour Average (<math>\mu\text{g}/\text{m}^3</math>)</b>
1/10/2022	4.1000
2/10/2022	8.2000
3/10/2022	2.8000
4/10/2022	3.0000
5/10/2022	6.5000
6/10/2022	8.8000
7/10/2022	5.6000
8/10/2022	5.5000
9/10/2022	9.0000
10/10/2022	8.1000
11/10/2022	5.5000
12/10/2022	7.5000
13/10/2022	6.6000
14/10/2022	7.2000
15/10/2022	6.5000
16/10/2022	8.7000
17/10/2022	8.5000
18/10/2022	8.3000
19/10/2022	6.8000

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Table 1: Quarter 4 2022 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
20/10/2022	3.3000
21/10/2022	2.9000
22/10/2022	5.8000
23/10/2022	1.6000
24/10/2022	6.0000
25/10/2022	6.1000
26/10/2022	4.6000
27/10/2022	4.3000
28/10/2022	7.8000
29/10/2022	7.9000
30/10/2022	4.2000
31/10/2022	7.8000
1/11/2022	11.3000
2/11/2022	5.7000
3/11/2022	5.9000
4/11/2022	2.7000
5/11/2022	8.8000
6/11/2022	4.8000
7/11/2022	4.2000
8/11/2022	5.8000
9/11/2022	6.5000
10/11/2022	7.4000
11/11/2022	9.3000
12/11/2022	5.8000
13/11/2022	9.5000
14/11/2022	9.5000
15/11/2022	14.6000

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Table 1: Quarter 4 2022 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
16/11/2022	11.9000
17/11/2022	9.3000
18/11/2022	6.4000
19/11/2022	9.2000
20/11/2022	35.4000
21/11/2022	9.5000
22/11/2022	9.0000
23/11/2022	9.3000
24/11/2022	9.6000
25/11/2022	8.5000
26/11/2022	9.6000
27/11/2022	11.6000
28/11/2022	16.5000
29/11/2022	9.7000
30/11/2022	9.0000
1/12/2022	8.0000
2/12/2022	3.8000
3/12/2022	4.8000
4/12/2022	5.7000
5/12/2022	7.6000
6/12/2022	7.4000
7/12/2022	6.2000
8/12/2022	23.9000
9/12/2022	12.4000
10/12/2022	9.0000
12/12/2022	14.3000
13/12/2022	11.0000

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Table 1: Quarter 4 2022 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
14/12/2022	15.1000
15/12/2022	15.6000
16/12/2022	20.2000
17/12/2022	22.0000
18/12/2022	9.6000
19/12/2022	9.8000
20/12/2022	9.8000
21/12/2022	19.5000
22/12/2022	16.6000
23/12/2022	7.9000
24/12/2022	9.0000
25/12/2022	7.0000
26/12/2022	4.2000
27/12/2022	6.1000
28/12/2022	5.6000
29/12/2022	9.8000
30/12/2022	5.2000
31/12/2022	5.5000

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Table 2: Quarter 4 2022 Depositional Dust Monitoring Data

	CDG1		CDG2		CDG3		CDG4		CDG5		CDG6	
	01-12-2022	31-10-2022	01-12-2022	31-10-2022	01-12-2022	31-10-2022	01-12-2022	31-10-2022	01-12-2022	31-10-2022	01-12-2022	
<b>Depositional Dust</b>												
Ash Content - Monthly (g/m <sup>2</sup> /month)	0.5	0.9	1.3	1.0	2.0	0.4	0.7	0.2	0.9	0.1	0.5	
Ash Content (mg)	10	17	23	19	37	7	14	4	17	<2	9	
Combustible Matter (g/m <sup>2</sup> /month)	0.1	0.9	0.7	0.3	0.7	0.2	0.1	0.3	0.4	0.2	0.2	
Combustible Matter (mg)	<2	15	14	7	13	4	<2	6	7	3	4	
Calculated Rainfall (mm)	82	92	91	97	100	104	86	88	100	86	96	
Volume	1440	1630	1610	1720	1770	1840	1530	1560	1760	1520	1700	
Total Soluble Matter (g/m <sup>2</sup> /month)	1.4	2.5	3.0	3.0	2.1	1.4	1.5	5.0	3.2	1.1	1.5	
Total Soluble Matter (mg)	26	46	55	55	38	25	27	91	58	21	28	
Total Insoluble Matter (g/m <sup>2</sup> /month)	0.6	1.8	2.0	1.4	2.7	0.6	0.8	0.5	1.3	0.3	0.7	
Total Insoluble Matter (mg)	11	32	37	26	50	11	15	10	24	5	13	
Total Solids (g/m <sup>2</sup> /month)	2.0	4.3	5.0	4.4	4.8	2.0	2.3	5.5	4.5	1.4	2.2	
Total Solids (mg)	37	78	92	81	88	36	42	101	82	26	41	
Total Insoluble Matter (Average) (g/m <sup>2</sup> /day)	0.0200	0.0600	0.0667	0.0467	0.0900	0.0200	0.0267	0.0167	0.0433	0.0100	0.0233	