

# Quarterly Dust Monitoring Results

Q1 2021



<b>Date of this report</b>	5/05/2021
<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>	1/01/2021 - 31/03/2021

Table 1: Quarter 1 2021 PM10 Concentrations

<b>Date</b>	<b>PM10 24 hour Average (<math>\mu\text{g}/\text{m}^3</math>)</b>
1/01/2021	4.5000
2/01/2021	5.4000
3/01/2021	7.7000
4/01/2021	8.6000
5/01/2021	6.4000
6/01/2021	5.5000
7/01/2021	7.2000
8/01/2021	7.7000
9/01/2021	2.6000
10/01/2021	5.2000
11/01/2021	7.2000
12/01/2021	5.7000
13/01/2021	8.0000
14/01/2021	9.8000
15/01/2021	10.2000
16/01/2021	13.7000
17/01/2021	17.1000
18/01/2021	13.2000
19/01/2021	6.4000

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Table 1: Quarter 1 2021 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
20/01/2021	4.7000
21/01/2021	13.0000
22/01/2021	11.2000
23/01/2021	13.5000
24/01/2021	10.0000
25/01/2021	5.7000
26/01/2021	6.5000
27/01/2021	10.1000
28/01/2021	10.5000
29/01/2021	11.0000
30/01/2021	10.0000
31/01/2021	9.3000
1/02/2021	31.8000
2/02/2021	13.1000
3/02/2021	17.3000
4/02/2021	8.9000
5/02/2021	8.2000
6/02/2021	8.2000
7/02/2021	11.8000
8/02/2021	8.0000
9/02/2021	10.7000
10/02/2021	14.8000
11/02/2021	13.8000
12/02/2021	7.2000
13/02/2021	12.6000
14/02/2021	11.1000
15/02/2021	5.8000
16/02/2021	8.5000

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Table 1: Quarter 1 2021 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
17/02/2021	9.8000
18/02/2021	6.3000
19/02/2021	6.1000
20/02/2021	5.1000
21/02/2021	9.9000
22/02/2021	12.4000
23/02/2021	12.3000
24/02/2021	37.6000
25/02/2021	9.1000
26/02/2021	9.3000
27/02/2021	9.0000
28/02/2021	8.2000
1/03/2021	8.4000
2/03/2021	7.9000
3/03/2021	8.8000
4/03/2021	9.0000
5/03/2021	9.7000
6/03/2021	9.7000
7/03/2021	11.6000
8/03/2021	14.2000
9/03/2021	14.3000
10/03/2021	9.8000
11/03/2021	11.4000
12/03/2021	5.2000
13/03/2021	6.0000
14/03/2021	8.1000
15/03/2021	9.2000
16/03/2021	2.6000

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Table 1: Quarter 1 2021 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
17/03/2021	3.8000
18/03/2021	2.0000
19/03/2021	1.3000
20/03/2021	3.7000
21/03/2021	5.3000
22/03/2021	8.7000
23/03/2021	6.4000
24/03/2021	7.3000
25/03/2021	4.4000
26/03/2021	6.4000
27/03/2021	5.3000
28/03/2021	8.7000
29/03/2021	6.3000
30/03/2021	6.5000
31/03/2021	6.5000

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Table 2: Quarter 1 2021 Depositional Dust Monitoring Data

	CDG1		CDG2		CDG3		CDG4		CDG5		CDG6	
	01-02-2021	01-03-2021	01-02-2021	01-03-2021	01-02-2021	01-03-2021	01-02-2021	01-03-2021	01-02-2021	01-03-2021	01-02-2021	01-03-2021
<b>Depositional Dust</b>												
Ash Content - Monthly (g/m <sup>2</sup> /month)	0.3	0.7	0.7	1.2	1.2	1.4	0.4	0.8	0.8	0.9	0.2	0.5
Ash Content (mg)	6	11	12	20	22	24	8	14	16	14	5	8
Combustible Matter (g/m <sup>2</sup> /month)	0.1	<0.1	0.7	0.8	0.3	0.1	0.1	0.4	0.2	0.5	<0.1	0.3
Combustible Matter (mg)	1	1	15	13	6	1	3	5	3	9	1	6
Calculated Rainfall (mm)	67	49	71	32	72	62	79	35	67	61	69	36
Volume	1180	864	1260	557	1270	1090	1400	626	1180	1070	1220	640
Total Soluble Matter (g/m <sup>2</sup> /month)	3.1	2.6	3.1	4.4	1.8	1.8	2.7	2.9	6.0	3.6	3.2	2.0
Total Soluble Matter (mg)	58	42	59	72	34	30	50	49	114	59	60	34
Total Insoluble Matter (g/m <sup>2</sup> /month)	0.4	0.7	1.4	2.0	1.5	1.5	0.6	1.2	1.0	1.4	0.3	0.8
Total Insoluble Matter (mg)	7	12	27	33	28	25	11	19	19	23	6	14
Total Solids (g/m <sup>2</sup> /month)	3.5	3.3	4.5	6.4	3.3	3.3	3.3	4.1	7.0	5.0	3.5	2.8
Total Solids (mg)	65	54	86	105	62	55	61	68	133	82	66	48
Others	13.30	23.30	46.70	66.70	50.00	50.00	20.00	40.00	33.30	46.70	10.00	26.70