

# Quarterly Dust Monitoring Results

Q3 2021



<b>Date of this report</b>	1/11/2021
<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>	1/07/2021 - 30/09/2021

Table 1: Quarter 3 2021 PM10 Concentrations

<b>Date</b>	<b>PM10 24 hour Average (<math>\mu\text{g}/\text{m}^3</math>)</b>
1/07/2021	5.5000
2/07/2021	5.7000
3/07/2021	0.4000
5/07/2021	2.1000
6/07/2021	5.0000
7/07/2021	3.4000
8/07/2021	4.7000
9/07/2021	7.7000
10/07/2021	4.1000
11/07/2021	4.1000
12/07/2021	3.9000
13/07/2021	4.8000
14/07/2021	4.6000
15/07/2021	5.9000
16/07/2021	8.5000
20/07/2021	4.6000
21/07/2021	3.8000
22/07/2021	4.0000
23/07/2021	5.3000

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Table 1: Quarter 3 2021 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
24/07/2021	7.9000
25/07/2021	4.0000
26/07/2021	8.9000
27/07/2021	5.0000
28/07/2021	9.6000
29/07/2021	11.5000
30/07/2021	8.4000
31/07/2021	6.4000
2/08/2021	14.6000
3/08/2021	15.1000
4/08/2021	8.7000
5/08/2021	4.1000
6/08/2021	3.4000
7/08/2021	2.9000
8/08/2021	4.5000
9/08/2021	7.7000
10/08/2021	9.6000
11/08/2021	8.3000
12/08/2021	6.1000
13/08/2021	6.9000
14/08/2021	11.8000
15/08/2021	9.9000
16/08/2021	13.7000
17/08/2021	11.3000
18/08/2021	5.6000
19/08/2021	8.1000
20/08/2021	9.5000

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Table 1: Quarter 3 2021 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
21/08/2021	13.7000
22/08/2021	17.9000
23/08/2021	15.3000
24/08/2021	34.9000
25/08/2021	5.2000
26/08/2021	4.0000
27/08/2021	3.3000
28/08/2021	5.1000
29/08/2021	12.0000
30/08/2021	18.3000
31/08/2021	13.9000
1/09/2021	15.5000
3/09/2021	30.8000
4/09/2021	9.0000
5/09/2021	7.2000
6/09/2021	6.9000
8/09/2021	15.0000
9/09/2021	21.3000
10/09/2021	36.8000
11/09/2021	31.1000
12/09/2021	36.0000
13/09/2021	6.9000
14/09/2021	10.5000
15/09/2021	10.5000
16/09/2021	9.3000
17/09/2021	16.6000
18/09/2021	18.0000

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Table 1: Quarter 3 2021 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
19/09/2021	11.7000
20/09/2021	40.6000
21/09/2021	13.7000
22/09/2021	30.3000
23/09/2021	7.5000
24/09/2021	13.9000
25/09/2021	15.0000
26/09/2021	19.0000
27/09/2021	23.0000
28/09/2021	11.6000
29/09/2021	7.3000
30/09/2021	5.8000

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Table 2: Quarter 3 2021 Depositional Dust Monitoring Data

	CDG1			CDG2			CDG3			CDG4			CDG5			CDG6		
	01-07-2021	02-08-2021	01-09-2021	01-07-2021	02-08-2021	01-09-2021	01-07-2021	02-08-2021	01-09-2021	01-07-2021	02-08-2021	01-09-2021	01-07-2021	02-08-2021	01-09-2021	01-07-2021	02-08-2021	01-09-2021
<b>Depositional Dust</b>																		
Ash Content - Monthly (g/m <sup>2</sup> /month)	0.4	0.4	0.2	0.5	0.7	0.4	0.6	0.7	0.7	0.7	0.8	0.4	0.4	2.3	0.7	0.3	0.4	0.2
Ash Content (mg)	7	7	4	8	13	8	10	13	12	11	16	8	7	43	12	5	7	4
Combustible Matter (g/m <sup>2</sup> /month)	0.4	0.2	0.3	<0.1	0.2	0.3	0.3	0.3	0.1	0.3	0.5	0.2	0.1	0.8	0.4	0.1	0.1	0.1
Combustible Matter (mg)	6	5	5	1	4	5	5	6	3	5	9	2	2	15	8	2	3	2
Calculated Rainfall (mm)	61	62	24	55	72	20	61	54	26	47	62	19	49	59	22	43	55	22
Volume	1080	1100	429	967	1280	355	1080	959	467	839	1090	337	872	1040	392	768	968	395
Total Soluble Matter (g/m <sup>2</sup> /month)	2.8	2.0	1.2	2.0	1.7	0.7	3.4	1.8	3.3	3.7	2.7	1.2	7.1	3.9	2.3	3.5	2.1	0.8
Total Soluble Matter (mg)	46	38	20	34	31	13	57	33	59	60	50	21	118	73	40	57	40	14
Total Insoluble Matter (g/m <sup>2</sup> /month)	0.8	0.6	0.5	0.5	0.9	0.7	0.9	1.0	0.8	1.0	1.3	0.6	0.5	3.1	1.1	0.4	0.5	0.4
Total Insoluble Matter (mg)	13	12	9	9	17	13	15	19	15	16	25	10	9	58	20	7	10	7
Total Solids (g/m <sup>2</sup> /month)	3.6	2.6	1.7	2.5	2.6	1.4	4.3	2.8	4.1	4.7	4.0	1.8	7.6	7.0	3.4	3.9	2.6	1.2
Total Solids (mg)	59	50	29	43	48	26	72	52	74	76	75	31	127	131	60	64	50	21
Total Insoluble Matter (Average) (g/m <sup>2</sup> /day)	0.0267	0.0200	0.0167	0.0167	0.0300	0.0233	0.0300	0.0333	0.0267	0.0333	0.0433	0.0200	0.0167	0.1033	0.0367	0.0133	0.0167	0.0133