

# Quarterly Dust Monitoring Results

Q2 2023



<b>Date of this report</b>	1/08/2023
<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>	1/04/2023 - 30/06/2023

Table 1: Quarter 2 2023 PM10 Concentrations

<b>Date</b>	<b>PM10 24 hour Average (<math>\mu\text{g}/\text{m}^3</math>)</b>
1/04/2023	8.8000
2/04/2023	3.6000
3/04/2023	9.2000
4/04/2023	8.2000
5/04/2023	4.4000
6/04/2023	4.3000
7/04/2023	9.2000
8/04/2023	5.6000
9/04/2023	9.1000
10/04/2023	7.4000
11/04/2023	7.3000
12/04/2023	4.0000
13/04/2023	4.6000
14/04/2023	14.3000
15/04/2023	4.6000
16/04/2023	8.3000
17/04/2023	23.5000
18/04/2023	6.2000
19/04/2023	11.7000

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Table 1: Quarter 2 2023 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
20/04/2023	7.7000
21/04/2023	7.7000
22/04/2023	6.1000
23/04/2023	6.1000
24/04/2023	8.0000
25/04/2023	6.4000
26/04/2023	7.5000
27/04/2023	6.4000
28/04/2023	6.0000
29/04/2023	3.3000
30/04/2023	6.7000
1/05/2023	1.1000
2/05/2023	3.6000
3/05/2023	4.4000
4/05/2023	4.0000
5/05/2023	9.4000
6/05/2023	7.6000
7/05/2023	8.3000
8/05/2023	9.1000
9/05/2023	6.8000
10/05/2023	6.4000
11/05/2023	7.6000
12/05/2023	8.1000
13/05/2023	6.3000
14/05/2023	7.3000
15/05/2023	4.4000
16/05/2023	3.1000

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Table 1: Quarter 2 2023 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
17/05/2023	1.3000
18/05/2023	4.7000
19/05/2023	4.1000
20/05/2023	5.5000
21/05/2023	5.9000
22/05/2023	3.0000
23/05/2023	7.3000
24/05/2023	9.0000
25/05/2023	NULL
26/05/2023	NULL
27/05/2023	NULL
28/05/2023	NULL
29/05/2023	NULL
30/05/2023	NULL
31/05/2023	4.8000
1/06/2023	6.6000
2/06/2023	7.6000
3/06/2023	7.8000
4/06/2023	5.8000
5/06/2023	5.3000
6/06/2023	4.5000
7/06/2023	4.8000
8/06/2023	2.5000
9/06/2023	3.7000
10/06/2023	5.4000
11/06/2023	8.4000
12/06/2023	6.9000

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Table 1: Quarter 2 2023 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
13/06/2023	3.5000
14/06/2023	4.0000
15/06/2023	5.5000
16/06/2023	9.3000
17/06/2023	25.4000
18/06/2023	10.1000
19/06/2023	6.9000
20/06/2023	5.6000
21/06/2023	8.3000
22/06/2023	5.0000
23/06/2023	10.6000
24/06/2023	9.5000
25/06/2023	5.7000
26/06/2023	7.0000
27/06/2023	8.8000
28/06/2023	15.0000
29/06/2023	12.5000
30/06/2023	3.0000

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Table 2: Quarter 2 2023 Depositional Dust Monitoring Data

	CDG1			CDG2			CDG3			CDG4			CDG5			CDG6		
	02-05-2023	01-06-2023	30-06-2023	02-05-2023	01-06-2023	30-06-2023	02-05-2023	01-06-2023	30-06-2023	02-05-2023	01-06-2023	30-06-2023	02-05-2023	01-06-2023	30-06-2023	02-05-2023	01-06-2023	30-06-2023
<b>Depositional Dust</b>																		
Ash Content - Monthly (g/m <sup>2</sup> /month)	0.4	0.2	0.2	0.7	0.3	0.3	1.6	0.2	0.4	0.8	0.5	0.8	0.3	1.5	0.4	0.2	0.2	0.2
Ash Content (mg)	7	3	3	13	6	5	29	3	7	14	9	14	6	26	6	5	4	3
Combustible Matter (g/m <sup>2</sup> /month)	0.2	<0.1	<0.1	0.4	0.2	0.1	0.6	0.2	0.2	0.4	0.3	1.0	0.7	5.1	0.8	0.3	<0.1	0.1
Combustible Matter (mg)	5	<2	<2	7	3	2	13	4	4	7	6	18	12	91	15	7	2	2
Calculated Rainfall (mm)	57	43	3	56	38	4	52	45	4	58	42	4	42	40	4	46	40	4
Volume	1010	755	47	982	664	77	927	797	72	1020	741	69	749	705	63	823	717	72
Total Soluble Matter (g/m <sup>2</sup> /month)	1.9	0.9	0.3	0.8	0.9	0.3	2.4	0.6	0.8	1.7	1.1	1.9	10.7	9.1	10.0	2.2	1.9	1.1
Total Soluble Matter (mg)	36	15	6	15	15	5	45	11	13	32	20	33	202	161	170	41	33	19
Total Insoluble Matter (g/m <sup>2</sup> /month)	0.6	0.2	0.2	1.1	0.5	0.4	2.2	0.4	0.6	1.2	0.8	1.9	1.0	6.6	1.2	0.6	0.3	0.3
Total Insoluble Matter (mg)	12	4	4	20	9	7	42	7	11	22	15	33	18	117	21	12	6	5
Total Solids (g/m <sup>2</sup> /month)	2.5	1.1	0.5	1.9	1.4	0.7	4.6	1.0	1.4	2.9	1.9	3.8	11.7	15.7	11.2	2.8	2.2	1.4
Total Solids (mg)	48	19	10	35	24	12	87	18	24	54	35	66	220	278	191	53	39	24
Total Insoluble Matter (Average) (g/m <sup>2</sup> /day)	0.0200	0.0067	0.0067	0.0367	0.0167	0.0133	0.0733	0.0133	0.0200	0.0400	0.0267	0.0633	0.0333	0.2200	0.0400	0.0200	0.0100	0.0100