

# Quarterly Dust Monitoring Results

Q4 2023



<b>Date of this report</b>	22/5/2024
<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>	1/10/2023 - 2/1/2024

Table 1: Quarter 4 2023 PM10 Concentrations

Date	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
1/10/2023	14.6000
2/10/2023	30.3000
3/10/2023	8.3000
4/10/2023	27.5000
5/10/2023	12.3000
6/10/2023	8.1000
7/10/2023	9.6000
8/10/2023	17.8000
9/10/2023	7.1000
10/10/2023	6.2000
11/10/2023	8.0000
12/10/2023	9.8000
13/10/2023	9.7000
14/10/2023	15.8000
15/10/2023	8.5000
16/10/2023	9.1000
17/10/2023	24.0000
18/10/2023	15.7000
19/10/2023	18.7000

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Table 1: Quarter 4 2023 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
20/10/2023	14.3000
21/10/2023	11.8000
22/10/2023	8.5000
23/10/2023	22.3000
24/10/2023	21.8000
25/10/2023	22.0000
26/10/2023	23.0000
27/10/2023	24.0000
28/10/2023	21.8000
29/10/2023	9.0000
30/10/2023	15.0000
31/10/2023	17.7000
1/11/2023	30.9000
2/11/2023	45.3000
3/11/2023	21.7000
4/11/2023	18.8000
5/11/2023	9.1000
6/11/2023	8.8000
7/11/2023	4.8000
8/11/2023	4.3000
9/11/2023	7.9000
10/11/2023	6.1000
11/11/2023	7.1000
12/11/2023	5.8000
13/11/2023	8.2000
14/11/2023	17.5000
15/11/2023	22.3000

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Table 1: Quarter 4 2023 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
16/11/2023	24.8000
17/11/2023	20.0000
18/11/2023	33.2000
19/11/2023	14.3000
20/11/2023	10.9000
21/11/2023	3.0000
22/11/2023	5.8000
23/11/2023	3.3000
24/11/2023	5.0000
25/11/2023	10.9000
26/11/2023	10.1000
27/11/2023	7.4000
28/11/2023	12.4000
29/11/2023	3.4000
30/11/2023	5.0000
1/12/2023	5.3000
2/12/2023	6.4000
3/12/2023	4.0000
4/12/2023	4.0000
5/12/2023	30.5000
6/12/2023	13.9000
7/12/2023	19.8000
8/12/2023	33.8000
9/12/2023	17.5000
10/12/2023	9.1000
11/12/2023	17.2000
12/12/2023	14.1000

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Table 1: Quarter 4 2023 PM10 Concentrations

	PM10 24 hour Average ( $\mu\text{g}/\text{m}^3$ )
13/12/2023	14.8000
14/12/2023	29.8000
15/12/2023	38.4000
16/12/2023	13.2000
17/12/2023	14.7000
18/12/2023	8.5000
19/12/2023	8.1000
20/12/2023	13.2000
21/12/2023	14.6000
22/12/2023	6.9000
23/12/2023	3.1000
24/12/2023	4.1000
25/12/2023	5.7000
26/12/2023	7.5000
27/12/2023	5.5000
28/12/2023	5.2000
29/12/2023	6.1000
30/12/2023	5.0000
31/12/2023	8.9000

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Table 2: Quarter 4 2023 Depositional Dust Monitoring Data

	CDG1			CDG2			CDG3			CDG4			CDG5			CDG6		
	31-10-2023	30-11-2023	02-01-2024	31-10-2023	30-11-2023	02-01-2024	31-10-2023	30-11-2023	02-01-2024	31-10-2023	30-11-2023	02-01-2024	31-10-2023	30-11-2023	02-01-2024	31-10-2023	30-11-2023	02-01-2024
<b>Depositional Dust</b>																		
Ash Content - Monthly (g/m <sup>2</sup> /month)	1.1	0.4	0.5	1.1	0.3	0.6	1.2	0.6	0.5	2.3	0.7	0.6	0.8	1.2	0.6	1.1	0.7	0.8
Ash Content (mg)	21	7	9	21	5	12	22	10	9	44	13	11	15	22	11	20	13	16
Combustible Matter (g/m <sup>2</sup> /month)	0.9	0.1	0.2	0.3	0.8	0.4	1.0	<0.1	0.3	0.8	<0.1	0.1	1.5	2.7	0.1	0.5	0.5	0.9
Combustible Matter (mg)	17	<2	4	6	15	8	20	<2	6	14	<2	3	29	47	2	11	9	17
Calculated Rainfall (mm)	12	140	103	12	142	87	9	147	77	12	122	82	13	132	131	10	131	99
Volume	219	2470	1820	207	2510	1540	165	2590	1360	210	2160	1450	228	2340	2310	184	2320	1760
Total Soluble Matter (g/m <sup>2</sup> /month)	0.3	0.2	0.9	0.4	<0.1	0.5	0.8	1.7	0.8	0.4	1.4	1.2	0.2	3.6	1.0	<0.1	2.9	5.4
Total Soluble Matter (mg)	5	4	18	7	<2	10	15	31	16	7	25	24	5	64	19	<2	52	105
Total Insoluble Matter (g/m <sup>2</sup> /month)	2.0	0.5	0.7	1.4	1.1	1.0	2.2	0.6	0.8	3.1	0.7	0.7	2.3	3.9	0.7	1.6	1.2	1.7
Total Insoluble Matter (mg)	38	8	13	27	20	20	42	10	15	58	13	14	44	69	13	31	22	33
Total Solids (g/m <sup>2</sup> /month)	2.3	0.7	1.6	1.8	1.1	1.5	3.0	2.3	1.6	3.5	2.1	1.9	2.5	7.5	1.7	1.6	4.1	7.1
Total Solids (mg)	43	12	31	34	20	30	57	41	31	65	38	38	49	133	32	31	74	138
Total Insoluble Matter (Average) (g/m <sup>2</sup> /day)	0.0667	0.0167	0.0233	0.0467	0.0367	0.0333	0.0733	0.0200	0.0267	0.1033	0.0233	0.0233	0.0767	0.1300	0.0233	0.0533	0.0400	0.0567