

Quarterly Dust Monitoring Results

Q1 2023



Date of this report	3/05/2023
Environmental Personnel Submitting Report	Les Merton Environment and Community Superintendent Cameby Downs Mine Phone: (07) 4665 8621
Relevant Environmental Authority Conditions	EPML00900113 Condition B2 (e); quarterly reporting of the measured dust deposition rates and PM10 concentrations to a publicly available website
Period	12/01/2023 - 31/03/2023

Table 1: Quarter 1 2023 PM10 Concentrations

Date	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
12/01/2023	7.3000
13/01/2023	11.3000
14/01/2023	6.7000
15/01/2023	5.5000
16/01/2023	8.4000
17/01/2023	4.9000
18/01/2023	7.3000
19/01/2023	8.0000
20/01/2023	15.1000
21/01/2023	10.0000
22/01/2023	7.7000
23/01/2023	6.0000
24/01/2023	8.8000
25/01/2023	7.7000
26/01/2023	10.1000
27/01/2023	19.7000
28/01/2023	10.5000
29/01/2023	7.9000
30/01/2023	7.9000

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Table 1: Quarter 1 2023 PM10 Concentrations

	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
31/01/2023	9.2000
1/02/2023	8.7000
2/02/2023	3.8000
3/02/2023	8.4000
4/02/2023	5.7000
5/02/2023	6.5000
6/02/2023	12.4000
7/02/2023	13.0000
8/02/2023	12.6000
9/02/2023	13.6000
10/02/2023	7.7000
11/02/2023	9.5000
12/02/2023	15.0000
13/02/2023	14.0000
14/02/2023	9.2000
15/02/2023	27.2000
16/02/2023	11.7000
17/02/2023	11.2000
18/02/2023	25.6000
19/02/2023	17.0000
20/02/2023	7.2000
21/02/2023	7.1000
22/02/2023	8.8000
23/02/2023	7.3000
24/02/2023	8.8000
25/02/2023	4.9000
26/02/2023	5.0000

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Table 1: Quarter 1 2023 PM10 Concentrations

	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
27/02/2023	7.5000
28/02/2023	5.3000
1/03/2023	9.9000
2/03/2023	9.1000
3/03/2023	9.3000
4/03/2023	6.7000
5/03/2023	5.0000
6/03/2023	9.1000
7/03/2023	6.0000
8/03/2023	8.8000
9/03/2023	9.3000
10/03/2023	9.3000
11/03/2023	4.7000
12/03/2023	3.7000
13/03/2023	6.4000
14/03/2023	4.7000
15/03/2023	8.4000
16/03/2023	8.6000
17/03/2023	6.4000
18/03/2023	10.5000
19/03/2023	8.1000
20/03/2023	9.8000
21/03/2023	7.3000
22/03/2023	9.7000
23/03/2023	9.3000
24/03/2023	7.8000
25/03/2023	13.5000

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Table 1: Quarter 1 2023 PM10 Concentrations

	PM10 24 hour Average ($\mu\text{g}/\text{m}^3$)
26/03/2023	7.7000
27/03/2023	7.0000
28/03/2023	7.3000
29/03/2023	6.4000
30/03/2023	8.7000
31/03/2023	7.7000

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Table 2: Quarter 1 2023 Depositional Dust Monitoring Data

	CDG1			CDG2			CDG3			CDG4			CDG5		CDG6		
	31-01-2023	28-02-2023	31-03-2023	31-01-2023	28-02-2023	31-03-2023	31-01-2023	28-02-2023	31-03-2023	31-01-2023	28-02-2023	31-03-2023	31-01-2023	28-02-2023	31-01-2023	28-02-2023	31-03-2023
Depositional Dust																	
Ash Content - Monthly (g/m ² /month)	0.4	0.2	0.7	1.3	0.3	0.7	2.1	1.3	3.7	1.1	0.5	1.0	1.1	0.2	0.5	0.2	0.3
Ash Content (mg)	7	4	12	21	5	12	35	21	67	18	8	18	18	4	9	4	5
Combustible Matter (g/m ² /month)	0.3	0.3	0.5	1.2	0.4	0.3	0.5	0.8	0.8	0.4	0.2	0.4	0.7	0.2	0.2	0.2	0.1
Combustible Matter (mg)	4	5	9	20	7	7	8	13	15	7	4	7	12	2	2	2	3
Calculated Rainfall (mm)	29	19	136	48	24	148	43	8	145	84	9	147	68	13	67	12	148
Volume	519	330	2400	856	432	2610	763	143	2560	1480	152	2600	1200	233	1180	208	2610
Total Soluble Matter (g/m ² /month)	1.8	0.9	1.3	3.8	1.7	3.4	2.5	2.6	4.5	3.6	1.5	3.6	4.0	0.5	2.7	0.5	2.9
Total Soluble Matter (mg)	29	15	24	63	28	62	41	43	83	60	25	67	67	8	44	8	53
Total Insoluble Matter (g/m ² /month)	0.7	0.5	1.2	2.5	0.7	1.0	2.6	2.1	4.5	1.5	0.7	1.4	1.8	0.4	0.7	0.4	0.4
Total Insoluble Matter (mg)	11	9	21	41	12	19	43	34	82	25	12	25	30	6	11	6	8
Total Solids (g/m ² /month)	2.5	1.4	2.5	6.3	2.4	4.4	5.1	4.7	9.0	5.1	2.2	5.0	5.8	0.9	3.4	0.9	3.3
Total Solids (mg)	40	24	45	104	40	81	84	77	165	85	37	92	97	14	55	14	61
Total Insoluble Matter (Average) (g/m ² /day)	0.0233	0.0167	0.0400	0.0833	0.0233	0.0333	0.0867	0.0700	0.1500	0.0500	0.0233	0.0467	0.0600	0.0133	0.0233	0.0133	0.0133