

TARRAWONGA COAL MINE
Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [$\mu\text{g}/\text{m}^3$]	Operational Response
1/01/2019	53.8	Actioned and Monitored operation according to Management Plan
2/01/2019	14.2	No action required
3/01/2019	33.4	No action required
4/01/2019	27.8	No action required
5/01/2019	22.7	No action required
6/01/2019	32.4	No action required
7/01/2019	26.4	No action required
8/01/2019	15.4	No action required
9/01/2019	26.8	No action required
10/01/2019	32.8	No action required
11/01/2019	15.8	No action required
12/01/2019	19.4	No action required
13/01/2019	17.0	No action required
14/01/2019	23.0	No action required
15/01/2019	41.6	Actioned and Monitored operation according to Management Plan
16/01/2019	52.4	Actioned and Monitored operation according to Management Plan
17/01/2019	44.1	Actioned and Monitored operation according to Management Plan
18/01/2019	33.8	No action required
19/01/2019	63.3	Actioned and Monitored operation according to Management Plan
20/01/2019	25.0	No action required
21/01/2019	16.1	No action required
22/01/2019	19.8	No action required
23/01/2019	19.6	No action required
24/01/2019	27.6	No action required
25/01/2019	21.5	No action required
26/01/2019	23.2	No action required
27/01/2019	23.5	No action required
28/01/2019	38.8	No action required
29/01/2019	37.5	No action required
30/01/2019	29.8	No action required
31/01/2019	27.7	No action required

(C) – Result calculated from incomplete data provided at least 75% of the data is successfully obtained.

S -- Servicing / calibration/ comms problem of unit- no data available

Note *- Flixton monitor is utilized as an operation management unit in accordance with the approved BTM Air Quality Management Strategy therefore No Limits Apply.

TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/02/2019	34.4	No action required
2/02/2019	27.7	No action required
3/02/2019	17.2	No action required
4/02/2019	56.8	Actioned and Monitored operation according to Management Plan
5/02/2019	52	Actioned and Monitored operation according to Management Plan
6/02/2019	17.9	No action required
7/02/2019	17.8	No action required
8/02/2019	27.1	No action required
9/02/2019	84.0	Elevated winds-Actioned and Monitored operation according to Management Plan
10/02/2019	47.6	Actioned and Monitored operation according to Management Plan
11/02/2019	45.1	Actioned and Monitored operation according to Management Plan
12/02/2019	S	No action required
13/02/2019	203.9	No action required
14/02/2019	S	No action required
15/02/2019	36.4	No action required
16/02/2019	36.8	No action required
17/02/2019	S	No action required
18/02/2019	61.8	Elevated winds-Actioned and Monitored operation according to Management Plan
19/02/2019	77.0	Elevated winds-Actioned and Monitored operation according to Management Plan
20/02/2019	74.7	Elevated winds-Actioned and Monitored operation according to Management Plan
21/02/2019	70.9	Actioned and Monitored operation according to Management Plan
22/02/2019	45	Actioned and Monitored operation according to Management Plan
23/02/2019	26.9	No action required
24/02/2019	18.5	No action required
25/02/2019	25.7	No action required
26/02/2019	22.3	No action required
27/02/2019	40.9	Actioned and Monitored operation according to Management Plan
28/02/2019	17.7	No action required

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TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/03/2019	16.4	No action required
2/03/2019	17.6	No action required
3/03/2019	24.6	No action required
4/03/2019	32.4	No action required
5/03/2019	42.6	Actioned and Monitored operation according to Management Plan
6/03/2019	96.4	Actioned and Monitored operation according to Management Plan
7/03/2019	49.6	Actioned and Monitored operation according to Management Plan
8/03/2019	30.1	No action required
9/03/2019	54.9	Actioned and Monitored operation according to Management Plan
10/03/2019	21.7	No action required
11/03/2019	63.0	Actioned and Monitored operation according to Management Plan
12/03/2019	60.4	Actioned and Monitored operation according to Management Plan
13/03/2019	38.8	No action required
14/03/2019	50.0	Actioned and Monitored operation according to Management Plan
15/03/2019	42.8	Actioned and Monitored operation according to Management Plan
16/03/2019	19.3	No action required
17/03/2019	9.3	No action required
18/03/2019	11.1	No action required
19/03/2019	13.8	No action required
20/03/2019	18.5	No action required
21/03/2019	20.6	No action required
22/03/2019	45.9	Actioned and Monitored operation according to Management Plan
23/03/2019	26.5	No action required
24/03/2019	34.0	No action required
25/03/2019	25.6	No action required
26/03/2019	31.7	No action required
27/03/2019	31.2	No action required
28/03/2019	23.0	No action required
29/03/2019	28.4	No action required
30/03/2019	18.0	No action required
31/03/2019	70.2	Actioned and Monitored operation according to Management Plan

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TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/04/2019	22.3	No action required
2/04/2019	15.3	No action required
3/04/2019	12.5	No action required
4/04/2019	14.8	No action required
5/04/2019	16.2	No action required
6/04/2019	15.9	No action required
7/04/2019	26.6	No action required
8/04/2019	46.3	Actioned and Monitored operation according to Management Plan
9/04/2019	61.5	Actioned and Monitored operation according to Management Plan
10/04/2019	34.1	No action required
11/04/2019	24.1	No action required
12/04/2019	25.3	No action required
13/04/2019	20.7	No action required
14/04/2019	29.0	No action required
15/04/2019	24.6	No action required
16/04/2019	30.1	No action required
17/04/2019	23.9	No action required
18/04/2019	36.6	No action required
19/04/2019	19.1	No action required
20/04/2019	12.8	No action required
21/04/2019	26.6	No action required
22/04/2019	26.1	No action required
23/04/2019	19.2	No action required
24/04/2019	30.2	No action required
25/04/2019	43.6	Actioned and Monitored operation according to Management Plan
26/04/2019	58.0	Actioned and Monitored operation according to Management Plan
27/04/2019	47.3	Actioned and Monitored operation according to Management Plan
28/04/2019	50.4	Actioned and Monitored operation according to Management Plan
29/04/2019	S	No action required
30/04/2019	31.9	No action required

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TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/05/2019	13.1	No action required
2/05/2019	33.5	No action required
3/05/2019	17.0	No action required
4/05/2019	4.8	No action required
5/05/2019	6.3	No action required
6/05/2019	7.5	No action required
7/05/2019	10.2	No action required
8/05/2019	17.7	No action required
9/05/2019	23.5	No action required
10/05/2019	26.2	No action required
11/05/2019	12.0	No action required
12/05/2019	14.3	No action required
13/05/2019	23.8	No action required
14/05/2019	36.5	No action required
15/05/2019	51.0	Actioned and Monitored operation according to Management Plan
16/05/2019	42.5	Actioned and Monitored operation according to Management Plan
17/05/2019	21.5	No action required
18/05/2019	28.9	No action required
19/05/2019	25.6	No action required
20/05/2019	32.8	No action required
21/05/2019	32.5	No action required
22/05/2019	32.5	No action required
23/05/2019	49.3	Actioned and Monitored operation according to Management Plan
24/05/2019	33.5	No action required
25/05/2019	31.9	No action required
26/05/2019	21.5	No action required
27/05/2019	26.7	No action required
28/05/2019	31.9	No action required
29/05/2019	32.9	No action required
30/05/2019	12.4	No action required
31/05/2019	16.5	No action required

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BTM: Boggabri, Tarrawonga, Maules' creek complex

TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/06/2019	29.0	No action required
2/06/2019	15.8	No action required
3/06/2019	7.5	No action required
4/06/2019	6.4	No action required
5/06/2019	12.8	No action required
6/06/2019	13.3	No action required
7/06/2019	16.3	No action required
8/06/2019	9.3	No action required
9/06/2019	3.3	No action required
10/06/2019	15.3	No action required
11/06/2019	11.9	No action required
12/06/2019	19.6	No action required
13/06/2019	19.5	No action required
14/06/2019	8.1	No action required
15/06/2019	14.2	No action required
16/06/2019	20.4	No action required
17/06/2019	18.3	No action required
18/06/2019	30.3	No action required
19/06/2019	17.2	No action required
20/06/2019	26.4	No action required
21/06/2019	16.0	No action required
22/06/2019	17.1	No action required
23/06/2019	13.8	No action required
24/06/2019	17.3	No action required
25/06/2019	38.3	No action required
26/06/2019	25.2	No action required
27/06/2019	12.7	No action required
28/06/2019	17.8	No action required
29/06/2019	21.9	No action required
30/06/2019	36.8	No action required

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S -- Servicing / calibration/ comms problem of unit- no data available

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BTM: Boggabri, Tarrawonga, Maules' creek complex

TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/07/2019	9.5	No action required
2/07/2019	15.9	No action required
3/07/2019	24.7	No action required
4/07/2019	17.7	No action required
5/07/2019	24.7	No action required
6/07/2019	28.8	No action required
7/07/2019	32.3	No action required
8/07/2019	74.1	Actioned according to Management plan and continue monitoring
9/07/2019	47.5	Actioned according to Management plan and continue monitoring
10/07/2019	54.0	Actioned according to Management plan and continue monitoring
11/07/2019	23.9	No action required
12/07/2019	8.9	No action required
13/07/2019	11.9	No action required
14/07/2019	22.8	No action required
15/07/2019	24.5	No action required
16/07/2019	26.4	No action required
17/07/2019	17.4	No action required
18/07/2019	24.3	No action required
19/07/2019	79.3	Actioned according to Management plan and continue monitoring
20/07/2019	23.1	No action required
21/07/2019	19.5	No action required
22/07/2019	33.8	No action required
23/07/2019	33.5	No action required
24/07/2019	40.0	No action required
25/07/2019	32.0	No action required
26/07/2019	25.9	No action required
27/07/2019	37.2	No action required
28/07/2019	30.4	No action required
29/07/2019	25.2	No action required
30/07/2019	14.8	No action required
31/07/2019		No action required

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BTM: Boggabri, Tarrawonga, Maules' creek complex

TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/8/2019	9.5	No action required
2/8/2019	15.9	No action required
3/8/2019	24.7	No action required
4/8/2019	17.7	No action required
5/8/2019	24.7	No action required
6/8/2019	28.8	No action required
7/8/2019	32.3	No action required
8/8/2019	74.1	Actioned according to Management plan and continue monitoring
9/8/2019	47.5	Actioned according to Management plan and continue monitoring
10/8/2019	54.0	Actioned according to Management plan and continue monitoring
11/8/2019	23.9	No action required
12/8/2019	8.9	No action required
13/8/2019	11.9	No action required
14/8/2019	22.8	No action required
15/8/2019	24.5	No action required
16/8/2019	26.4	No action required
17/8/2019	17.4	No action required
18/8/2019	24.3	No action required
19/8/2019	79.3	Actioned according to Management plan and continue monitoring
20/8/2019	23.1	No action required
21/8/2019	19.5	No action required
22/8/2019	33.8	No action required
23/8/2019	33.5	No action required
24/8/2019	40.0	No action required
25/8/2019	32.0	No action required
26/8/2019	25.9	No action required
27/8/2019	37.2	No action required
28/8/2019	30.4	No action required
29/8/2019	25.2	No action required
30/8/2019	14.8	No action required
31/8/2019	11.1	No action required

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BTM: Boggabri, Tarrawonga, Maules' creek complex

TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/9/2019	13.1	No action required
2/9/2019	31.0	No action required
3/9/2019	36.4	No action required
4/9/2019	44.3	Actioned according to Management plan and continue monitoring
5/9/2019	50.3	Actioned according to Management plan and continue monitoring
6/9/2019	220.2	Actioned according to Management plan and continue monitoring
7/9/2019	78.3	Actioned according to Management plan and continue monitoring
8/9/2019	27.0	No action required
9/9/2019	49.2	Actioned according to Management plan and continue monitoring
10/9/2019	19.0	No action required
11/9/2019	25.0	No action required
12/9/2019	55.7	Actioned according to Management plan and continue monitoring
13/9/2019	37.0	No action required
14/9/2019	23.2	No action required
15/9/2019	34.3	No action required
16/9/2019	54.8	Actioned according to Management plan and continue monitoring
17/9/2019	74.4	Actioned according to Management plan and continue monitoring
18/9/2019	15.0	No action required
19/9/2019	31.3	No action required
20/9/2019	32.4	No action required
21/9/2019	24.3	No action required
22/9/2019	45.5	Actioned according to Management plan and continue monitoring
23/9/2019	21.6	No action required
24/9/2019	28.0	No action required
25/9/2019	26.2	No action required
26/9/2019	28.3	No action required
27/9/2019	30.4	No action required
28/9/2019	36.5	No action required
29/9/2019	29.4	No action required
30/9/2019	40.5	Actioned according to Management plan and continue monitoring

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BTM: Boggabri, Tarrawonga, Maules' creek complex

TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/10/2019	37.6	No action required
2/10/2019	31.5	No action required
3/10/2019	27.0	No action required
4/10/2019	40.2	Actioned according to Management plan and continue monitoring
5/10/2019	45.5	Actioned according to Management plan and continue monitoring
6/10/2019	35.6	No action required
7/10/2019	109.4	Actioned according to Management plan and continue monitoring
8/10/2019	146.2	Actioned according to Management plan and continue monitoring
9/10/2019	45.1	Actioned according to Management plan and continue monitoring
10/10/2019	49.4	Actioned according to Management plan and continue monitoring
11/10/2019	51.1	Actioned according to Management plan and continue monitoring
12/10/2019	6.6	No action required
13/10/2019	7.8	No action required
14/10/2019	28.9	No action required
15/10/2019	39.0	No action required
16/10/2019	57.4	Actioned according to Management plan and continue monitoring
17/10/2019*	94.6	Actioned according to Management plan and continue monitoring
18/10/2019	53.3	Actioned according to Management plan and continue monitoring
19/10/2019	47.4	Actioned according to Management plan and continue monitoring
20/10/2019	27.9	No action required
21/10/2019	54.8	Actioned according to Management plan and continue monitoring
22/10/2019	57.3	Actioned according to Management plan and continue monitoring
23/10/2019	85.3	Actioned according to Management plan and continue monitoring
24/10/2019	92.8	Actioned according to Management plan and continue monitoring
25/10/2019	60.5	Actioned according to Management plan and continue monitoring
26/10/2019	221.1	Actioned according to Management plan and continue monitoring
27/10/2019	66.2	Actioned according to Management plan and continue monitoring
28/10/2019	80.1(C)	Actioned according to Management plan and continue monitoring
29/10/2019	76.9	Actioned according to Management plan and continue monitoring
30/10/2019	77.0	Actioned according to Management plan and continue monitoring
31/10/2019	76.1	Actioned according to Management plan and continue monitoring

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BTM: Boggabri, Tarrawonga, Maules' creek complex

*Beginning of bushfire and smoke coming from Kaputar state forest

TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/11/2019	42.6	Actioned according to Management plan and continue monitoring
2/11/2019	21.6	No action required
3/11/2019	30.5	No action required
4/11/2019	7.4	No action required
5/11/2019	17.3	No action required
6/11/2019	24.0	No action required
7/11/2019	87.0	Actioned according to Management plan and continue monitoring
8/11/2019	148.8	Actioned according to Management plan and continue monitoring
9/11/2019	66.9	Actioned according to Management plan and continue monitoring
10/11/2019	34.2	No action required
11/11/2019	29.1	No action required
12/11/2019	104.6	Actioned according to Management plan and continue monitoring
13/11/2019	54.1	Actioned according to Management plan and continue monitoring
14/11/2019	24.5	No action required
15/11/2019	23.9	No action required
16/11/2019	25.5	No action required
17/11/2019	32.9	No action required
18/11/2019	144.3	Actioned according to Management plan and continue monitoring
19/11/2019	47.3	Actioned according to Management plan and continue monitoring
20/11/2019	68.8	Actioned according to Management plan and continue monitoring
21/11/2019	176.8	Actioned according to Management plan and continue monitoring
22/11/2019	109.3	Actioned according to Management plan and continue monitoring
23/11/2019	132.7	Actioned according to Management plan and continue monitoring
24/11/2019	40.0	No action required
25/11/2019	34.1	No action required
26/11/2019	250.4	Actioned according to Management plan and continue monitoring
27/11/2019	144.1	Actioned according to Management plan and continue monitoring
28/11/2019	87.6	Actioned according to Management plan and continue monitoring
29/11/2019	73.5	Actioned according to Management plan and continue monitoring
30/11/2019	86.2	Actioned according to Management plan and continue monitoring
31/11/2019	42.6	Actioned according to Management plan and continue monitoring

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BTM: Boggabri, Tarrawonga, Maules' creek complex

TARRAWONGA COAL MINE Dust Monitoring

Date	Flixton* PM ₁₀ 24hr Average [µg/m ³]	Operational Response
1/12/2019	92.2	Actioned according to Management plan and continue monitoring
2/12/2019	262.8	Actioned according to Management plan and continue monitoring
3/12/2019	118.5	Actioned according to Management plan and continue monitoring
4/12/2019	75.1	Actioned according to Management plan and continue monitoring
5/12/2019	50.5	Actioned according to Management plan and continue monitoring
6/12/2019	72.8	Actioned according to Management plan and continue monitoring
7/12/2019	32.2	No action required
8/12/2019	73.9	Actioned according to Management plan and continue monitoring
9/12/2019	131.9	Actioned according to Management plan and continue monitoring
10/12/2019	69.3	Actioned according to Management plan and continue monitoring
11/12/2019	123.6	Actioned according to Management plan and continue monitoring
12/12/2019	56.2	Actioned according to Management plan and continue monitoring
13/12/2019	47.6	Actioned according to Management plan and continue monitoring
14/12/2019	29.2	No action required
15/12/2019	50.2	Actioned according to Management plan and continue monitoring
16/12/2019	65.7	Actioned according to Management plan and continue monitoring
17/12/2019	89.4	Actioned according to Management plan and continue monitoring
18/12/2019	100.6	Actioned according to Management plan and continue monitoring
19/12/2019	101.7	Actioned according to Management plan and continue monitoring
20/12/2019	108.0	Actioned according to Management plan and continue monitoring
21/12/2019	133.4	Actioned according to Management plan and continue monitoring
22/12/2019	109.6	Actioned according to Management plan and continue monitoring
23/12/2019	63.3	Actioned according to Management plan and continue monitoring
24/12/2019	61.3	Actioned according to Management plan and continue monitoring
25/12/2019	23.2	No action required
26/12/2019	27.3	No action required
27/12/2019	40.9	Actioned according to Management plan and continue monitoring
28/12/2019	37.9	No action required
29/12/2019	58.9	Actioned according to Management plan and continue monitoring
30/12/2019	62.1	Actioned according to Management plan and continue monitoring
31/12/2019	49.5	Actioned according to Management plan and continue monitoring

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BTM: Boggabri, Tarrawonga, Maules' creek complex