
Appendix B

Modelled maximum 24-hour average PM10
concentrations (Year 11)

Modelled maximum 24-hour average PM10 concentrations in worst case operational year (Year 11)

Units = µg/m³

Date	PM10 background	Maison Dieu (property 161)								Jerrys Plains (property 308)								Criteria
		Without reactive controls				With reactive controls				Without reactive controls				With reactive controls				
		Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	
1/01/2014	22.8	0.5	0.0	0.9	24.3	0.5	0.0	0.9	24.3	0.6	4.0	15.6	43.0	0.6	3.1	15.6	42.1	50
2/01/2014	24.3	4.2	2.0	4.2	34.7	3.7	1.8	4.2	34.0	2.5	5.4	6.1	38.3	2.1	5.0	6.1	37.6	50
3/01/2014	37.8	0.0	0.0	0.5	38.3	0.0	0.0	0.5	38.3	0.0	5.9	9.6	53.3	0.0	0.2	9.6	47.6	50
4/01/2014	33.3	3.1	0.4	10.2	46.9	0.0	0.0	10.2	43.6	2.4	3.5	5.8	45.0	0.0	0.1	5.8	39.2	50
5/01/2014	29.3	0.2	0.3	0.4	30.1	0.2	0.3	0.4	30.1	0.3	5.3	13.1	48.0	0.3	2.2	13.1	44.9	50
6/01/2014	23.5	0.9	1.3	4.0	29.6	0.9	1.3	4.0	29.7	2.6	2.6	5.7	34.3	2.6	2.1	5.7	33.8	50
7/01/2014	26.6	0.0	0.0	0.0	26.6	0.0	0.0	0.0	26.6	0.0	6.0	10.7	43.3	0.0	5.9	10.7	43.1	50
8/01/2014	14.2	0.0	0.0	0.0	14.2	0.0	0.0	0.0	14.2	0.0	6.8	11.9	32.9	0.0	6.6	11.9	32.7	50
9/01/2014	15.7	0.0	0.0	0.1	15.8	0.0	0.0	0.1	15.8	0.0	4.4	13.7	33.7	0.0	4.4	13.7	33.7	50
10/01/2014	19.2	0.2	0.0	0.5	19.9	0.2	0.0	0.5	19.9	0.3	2.5	16.5	38.4	0.3	2.3	16.5	38.2	50
11/01/2014	28.3	0.9	0.1	3.4	32.7	0.6	0.0	3.4	32.4	2.6	4.5	12.0	47.4	0.4	1.5	12.0	42.2	50
12/01/2014	24.0	0.0	0.0	1.7	25.7	0.0	0.0	1.7	25.7	2.1	5.8	10.3	42.2	0.1	4.3	10.3	38.7	50
13/01/2014	23.2	0.0	0.0	0.0	23.2	0.0	0.0	0.0	23.2	0.0	4.5	14.6	42.3	0.0	3.8	14.6	41.6	50
14/01/2014	24.2	0.0	0.0	0.7	24.9	0.0	0.0	0.7	24.9	0.1	3.2	12.6	40.0	0.1	2.7	12.6	39.6	50
15/01/2014	23.2	0.4	0.1	3.2	26.8	0.3	0.1	3.2	26.7	1.5	4.0	11.0	39.7	1.3	4.0	11.0	39.4	50
16/01/2014	38.7	0.3	0.0	3.3	42.3	0.0	0.0	3.3	42.0	2.1	3.5	14.0	58.3	0.0	0.2	14.0	52.9	50
17/01/2014	23.7	0.0	0.0	0.3	24.0	0.0	0.0	0.3	24.0	0.1	2.9	16.4	43.1	0.0	2.3	16.4	42.4	50
18/01/2014	17.9	0.9	0.1	4.0	22.9	0.6	0.1	4.0	22.6	2.4	4.2	13.3	37.9	0.9	3.1	13.3	35.2	50
19/01/2014	26.7	0.5	0.2	3.1	30.4	0.2	0.1	3.1	30.1	2.8	4.2	13.7	47.4	0.2	0.2	13.7	40.7	50
20/01/2014	21.7	0.0	0.0	0.0	21.7	0.0	0.0	0.0	21.7	0.0	3.9	15.8	41.4	0.0	3.9	15.8	41.4	50
21/01/2014	16.2	0.0	0.0	0.1	16.3	0.0	0.0	0.1	16.3	0.0	2.2	12.1	30.5	0.0	2.2	12.1	30.5	50
22/01/2014	14.1	0.0	0.0	0.0	14.1	0.0	0.0	0.0	14.1	0.0	0.6	13.2	27.9	0.0	0.6	13.2	27.9	50
23/01/2014	14.4	0.0	0.0	0.0	14.4	0.0	0.0	0.0	14.4	0.0	2.7	13.0	30.1	0.0	2.7	13.0	30.1	50
24/01/2014	13.1	1.4	0.9	1.2	16.6	1.4	0.9	1.2	16.6	0.8	1.9	15.6	31.4	0.8	0.7	15.6	30.1	50
25/01/2014	17.0	2.2	1.5	0.2	20.9	2.2	1.5	0.2	20.9	0.0	2.7	4.3	24.1	0.0	2.7	4.3	24.1	50
26/01/2014	16.1	0.0	0.0	0.0	16.1	0.0	0.0	0.0	16.1	0.0	5.3	15.3	36.6	0.0	5.1	15.3	36.4	50
27/01/2014	14.3	0.0	0.0	3.7	17.9	0.0	0.0	3.7	17.9	0.1	3.2	11.6	29.2	0.0	3.2	11.6	29.0	50
28/01/2014	15.6	0.0	0.0	2.8	18.4	0.0	0.0	2.8	18.4	0.2	3.3	8.6	27.8	0.2	3.3	8.6	27.8	50
29/01/2014	19.6	1.1	0.2	3.7	24.6	0.9	0.1	3.7	24.3	2.2	4.4	11.5	37.7	1.3	3.8	11.5	36.1	50
30/01/2014	17.2	0.0	0.0	0.0	17.2	0.0	0.0	0.0	17.2	0.0	2.8	12.8	32.9	0.0	2.8	12.8	32.8	50
31/01/2014	21.6	0.0	0.1	2.9	24.6	0.0	0.1	2.9	24.6	1.6	6.3	13.2	42.7	1.2	6.0	13.2	42.0	50
1/02/2014	27.1	0.0	0.0	0.3	27.4	0.0	0.0	0.3	27.4	0.0	2.8	20.7	50.6	0.0	0.1	20.7	47.8	50
2/02/2014	18.3	0.0	0.0	0.0	18.3	0.0	0.0	0.0	18.3	0.0	2.5	17.9	38.8	0.0	2.1	17.9	38.4	50
3/02/2014	18.9	0.0	0.0	1.7	20.6	0.0	0.0	1.7	20.6	0.0	4.2	7.9	31.0	0.0	4.2	7.9	31.0	50
4/02/2014	24.4	0.0	0.0	2.0	26.4	0.0	0.0	2.0	26.4	0.6	3.5	19.5	48.0	0.2	1.8	19.5	45.9	50
5/02/2014	21.0	0.0	0.0	0.0	21.0	0.0	0.0	0.0	21.0	0.0	4.0	9.4	34.4	0.0	4.0	9.4	34.4	50
6/02/2014	13.0	0.0	0.0	0.2	13.2	0.0	0.0	0.2	13.2	0.0	6.0	14.6	33.7	0.0	6.0	14.6	33.7	50
7/02/2014	17.9	0.0	0.1	3.0	21.0	0.0	0.1	3.0	21.0	1.2	5.4	10.8	35.3	1.0	5.2	10.8	34.9	50
8/02/2014	16.5	0.6	0.4	4.5	22.0	0.4	0.3	4.5	21.7	4.7	5.6	13.1	39.8	4.3	5.4	13.1	39.3	50
9/02/2014	18.5	0.3	0.0	4.4	23.2	0.2	0.0	4.4	23.2	4.2	4.3	16.0	43.0	1.9	2.0	16.0	38.3	50
10/02/2014	29.2	0.0	0.0	1.9	31.1	0.0	0.0	1.9	31.1	2.3	3.4	11.7	46.5	0.4	1.2	11.7	42.4	50
11/02/2014	19.4	0.0	0.0	0.0	19.4	0.0	0.0	0.0	19.4	0.0	3.2	13.5	36.1	0.0	3.2	13.5	36.1	50
12/02/2014	21.1	0.0	0.0	0.0	21.1	0.0	0.0	0.0	21.1	0.0	4.1	14.3	39.5	0.0	4.1	14.3	39.5	50
13/02/2014	29.9	0.0	0.0	0.1	30.0	0.0	0.0	0.1	30.0	0.0	3.4	16.4	49.7	0.0	3.2	16.4	49.5	50
14/02/2014	14.6	0.0	0.1	3.1	17.7	0.0	0.1	3.1	17.7	1.8	11.6	15.0	42.9	1.1	9.4	15.0	40.1	50
15/02/2014	13.7	0.0	0.0	2.2	15.9	0.0	0.0	2.2	15.9	1.1	4.4	28.5	47.6	0.8	4.2	28.5	47.1	50
16/02/2014	19.9	4.6	1.0	6.6	32.1	3.9	1.1	6.6	31.4	1.2	4.0	7.3	32.5	1.0	3.6	7.3	31.8	50
17/02/2014	14.3	0.0	0.0	0.0	14.3	0.0	0.0	0.0	14.3	0.0	6.3	14.2	34.9	0.0	5.3	14.2	33.8	50
18/02/2014	19.6	0.0	0.0	0.7	20.4	0.0	0.0	0.7	20.4	0.0	4.0	18.8	42.4	0.0	4.0	18.8	42.4	50
19/02/2014	11.1	6.7	1.1	6.5	25.3	6.5	1.1	6.5	25.2	4.0	2.1	5.2	22.5	2.6	1.8	5.2	20.7	50
20/02/2014	13.6	2.8	3.1	3.7	23.3	2.8	3.1	3.7	23.3	0.2	0.2	2.2	16.3	0.2	0.2	2.2	16.3	50
21/02/2014	22.6	0.6	0.2	4.5	28.0	0.5	0.2	4.5	27.8	1.2	4.2	8.2	36.2	1.0	4.1	8.2	36.0	50
22/02/2014	25.6	0.0	0.0	0.0	25.6	0.0	0.0	0.0	25.6	0.0	4.4	14.1	44.1	0.0	3.4	14.1	43.1	50
23/02/2014	20.4	0.0	0.0	0.1	20.5	0.0	0.0	0.1	20.5	0.0	4.5	21.4	46.3	0.0	1.4	21.4	43.2	50
24/02/2014	11.8	0.0	0.0	0.8	12.6	0.0	0.0	0.8	12.6	0.0	7.5	19.7	39.0	0.0	3.6	19.7	35.1	50
25/02/2014	12.8	0.0	0.1	3.0	15.9	0.0	0.1	3.0	15.9	1.7	6.8	12.7	33.9	1.7	5.3	12.7	32.5	50
26/02/2014	15.0	2.4	1.4	3.8	22.6	2.4	1.4	3.8	22.6	1.1	1.9	6.2	24.3	1.1	1.9	6.2	24.3	50
27/02/2014	18.8	0.1	0.3	1.7	20.9	0.1	0.2	1.7	20.8	0.4	2.0	12.2	33.3	0.4	1.6	12.2	32.9	50
28/02/2014	4.8	0.0	0.0	0.9	5.7	0.0	0.0	0.9	5.7	0.0	0.2	7.5	12.5	0.0	0.2	7.5	12.5	50
1/03/2014	9.7	0.0	0.0	0.3	10.0	0.0	0.0	0.3	10.0	0.0	2.6	14.2	26.5	0.0	2.6	14.2	26.5	50
2/03/2014	8.0	0.0	0.0	0.3	8.3	0.0	0.0	0.3	8.3	0.0	0.4	19.8	28.1	0.0	0.4	19.8	28.1	50
3/03/2014	8.1	0.0	0.0	0.0	8.2	0.0	0.0	0.0	8.2	0.0	0.3	21.0	29.5	0.0	0.3	21.0	29.5	50
4/03/2014	7.7	0.0	0.0	0.2	7.9	0.0	0.0	0.2	7.9	0.0	5.6	14.6	27.8	0.0	5.6	14.6	27.8	50
5/03/2014	9.4	4.7	2.5	5.1	21.7	4.4	2.5	5.1	21.4	1.9	1.1	4.5	16.9	1.9	1.1	4.5	16.9	50
6/03/2014	16.7	2.7	5.3	2.5	27.3	2.7	5.3	2.5	27.3	0.6	5.5	9.9	32.7	0.6	2.9	9.9	30.1	50
7/03/2014	20.6	0.1	0.1	7.0	27.7	0.0	0.1	7.0	27.7	1.3	2.4	16.3	40.6	0.7	1.6	16.3	39.2	50
8/03/2014	9.7	0.0	0.0	6.0	15.8	0.0	0.0	6.0	15.8	0.1	3.0	9.5	22.2	0.1	3.0	9.5	22.2	50

Modelled maximum 24-hour average PM10 concentrations in worst case operational year (Year 11)

Units = µg/m³

Date	PM10 background	Maison Dieu (property 161)								Jerrys Plains (property 308)								Criteria
		Without reactive controls				With reactive controls				Without reactive controls				With reactive controls				
		Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	
9/03/2014	10.8	0.0	0.0	3.1	14.0	0.0	0.0	3.1	14.0	0.1	2.9	12.3	26.1	0.1	2.9	12.3	26.1	50
10/03/2014	10.6	0.0	0.0	5.9	16.6	0.0	0.0	5.9	16.6	0.2	3.8	8.7	23.3	0.2	3.8	8.7	23.3	50
11/03/2014	11.1	0.0	0.0	1.3	12.4	0.0	0.0	1.3	12.4	0.0	3.5	10.8	25.4	0.0	3.5	10.8	25.4	50
12/03/2014	13.9	1.7	0.5	4.9	20.9	1.7	0.5	4.9	20.9	1.8	4.1	8.1	27.8	1.8	3.4	8.1	27.1	50
13/03/2014	19.3	0.0	0.0	0.3	19.6	0.0	0.0	0.3	19.6	0.1	2.9	11.7	34.0	0.1	2.9	11.7	34.0	50
14/03/2014	15.9	4.4	0.9	7.2	28.4	4.4	0.9	7.2	28.4	2.8	2.9	10.2	31.7	2.7	2.6	10.2	31.4	50
15/03/2014	8.7	6.4	7.1	5.9	28.1	6.1	6.7	5.9	27.3	0.2	0.1	0.7	9.7	0.1	0.1	0.7	9.6	50
16/03/2014	10.6	3.5	6.4	3.9	24.4	3.4	6.3	3.9	24.3	0.0	0.2	0.8	11.8	0.0	0.2	0.8	11.8	50
17/03/2014	10.8	9.2	2.2	5.5	27.6	9.2	2.2	5.5	27.6	0.1	0.1	0.8	11.9	0.1	0.1	0.8	11.9	50
18/03/2014	19.7	2.9	0.8	7.5	30.9	2.9	0.8	7.5	30.9	7.6	1.7	7.7	36.7	6.0	1.1	7.7	34.4	50
19/03/2014	26.3	1.7	1.3	5.5	34.8	1.7	1.2	5.5	34.7	1.8	4.9	7.9	40.9	1.8	4.9	7.9	40.9	50
20/03/2014	14.5	0.0	0.0	0.2	14.7	0.0	0.0	0.2	14.7	0.0	3.3	17.2	35.0	0.0	3.3	17.2	35.0	50
21/03/2014	12.6	0.0	0.0	1.5	14.1	0.0	0.0	1.5	14.1	0.1	5.4	20.2	38.2	0.0	5.2	20.2	38.0	50
22/03/2014	7.3	4.3	2.6	10.0	24.2	4.3	2.6	10.0	24.2	1.3	1.0	4.1	13.7	1.3	1.0	4.1	13.7	50
23/03/2014	18.2	1.4	1.9	9.9	31.3	1.4	1.8	9.9	31.3	2.3	1.9	7.0	29.4	2.1	1.6	7.0	28.9	50
24/03/2014	9.6	0.4	1.4	4.9	16.3	0.4	1.4	4.9	16.3	1.1	0.9	11.9	23.4	1.1	0.9	11.9	23.4	50
25/03/2014	12.4	0.1	0.2	4.2	16.8	0.1	0.2	4.2	16.8	1.9	16.1	17.4	47.8	0.8	9.3	17.4	39.9	50
26/03/2014	10.7	0.0	0.0	4.4	15.1	0.0	0.0	4.4	15.1	0.2	5.7	24.3	40.8	0.1	2.2	24.3	37.2	50
27/03/2014	6.6	0.0	0.0	3.8	10.4	0.0	0.0	3.8	10.4	0.0	2.0	19.1	27.7	0.0	2.0	19.1	27.7	50
28/03/2014	7.1	4.6	1.6	7.7	21.1	3.8	1.6	7.7	20.2	1.5	2.1	7.2	17.9	1.5	2.1	7.2	17.9	50
29/03/2014	9.8	8.7	0.5	1.8	20.8	8.7	0.5	1.8	20.8	2.1	4.4	8.4	24.6	2.1	4.3	8.4	24.5	50
30/03/2014	13.3	0.0	0.0	0.9	14.2	0.0	0.0	0.9	14.2	0.1	7.9	19.2	40.5	0.0	5.7	19.2	38.2	50
31/03/2014	12.4	0.0	0.0	1.6	14.0	0.0	0.0	1.6	14.0	0.0	5.2	16.9	34.5	0.0	5.2	16.9	34.5	50
1/04/2014	10.2	1.3	1.5	7.3	20.4	1.3	1.5	7.3	20.4	4.2	9.5	12.2	36.2	4.2	7.8	12.2	34.4	50
2/04/2014	16.5	1.0	1.3	7.6	26.4	0.9	1.2	7.6	26.3	4.0	7.2	17.2	44.8	3.8	6.0	17.2	43.5	50
3/04/2014	15.7	2.7	1.2	6.2	25.8	2.7	1.2	6.2	25.8	3.2	3.6	18.6	41.1	3.1	3.6	18.6	41.1	50
4/04/2014	11.2	0.6	1.5	3.1	16.4	0.6	1.5	3.1	16.4	0.4	8.2	19.2	39.0	0.4	7.8	19.2	38.6	50
5/04/2014	8.8	0.8	2.6	3.3	15.4	0.7	2.5	3.3	15.3	0.6	10.2	14.3	33.8	0.5	9.2	14.3	32.8	50
6/04/2014	7.1	0.0	0.0	2.4	9.6	0.0	0.0	2.4	9.6	0.1	0.5	23.5	31.2	0.1	0.5	23.5	31.2	50
7/04/2014	10.8	0.0	0.0	1.1	11.9	0.0	0.0	1.1	11.9	0.0	1.8	25.6	38.3	0.0	1.4	25.6	37.8	50
8/04/2014	13.5	0.1	0.1	5.0	18.7	0.1	0.1	5.0	18.7	1.6	7.7	15.7	38.6	1.2	6.8	15.7	37.2	50
9/04/2014	12.7	0.8	0.8	7.1	21.4	0.8	0.8	7.1	21.4	2.4	6.0	9.5	30.7	2.4	5.7	9.5	30.3	50
10/04/2014	15.4	1.9	1.7	8.1	27.1	1.8	1.5	8.1	26.6	4.6	6.0	13.5	39.5	4.5	5.5	13.5	38.9	50
11/04/2014	10.4	4.6	2.6	6.0	23.5	4.4	2.6	6.0	23.3	0.5	0.4	1.5	12.7	0.5	0.4	1.5	12.7	50
12/04/2014	6.6	1.6	2.4	3.2	13.9	1.6	2.4	3.2	13.9	0.0	3.9	11.2	21.8	0.0	3.3	11.2	21.2	50
13/04/2014	8.4	0.6	0.7	6.1	15.8	0.2	0.5	6.1	15.3	2.0	5.9	27.3	43.6	0.2	2.2	27.3	38.1	50
14/04/2014	11.0	0.0	0.0	0.8	11.8	0.0	0.0	0.8	11.8	0.1	3.6	23.1	37.8	0.0	3.0	23.1	37.1	50
15/04/2014	9.2	0.0	0.0	4.9	14.2	0.0	0.0	4.9	14.1	1.0	11.0	14.4	35.5	0.9	9.2	14.4	33.6	50
16/04/2014	13.1	0.0	0.0	3.5	16.6	0.0	0.0	3.5	16.6	0.5	2.2	24.3	40.1	0.2	0.7	24.3	38.3	50
17/04/2014	10.2	3.5	2.7	8.0	24.3	3.3	2.6	8.0	24.0	1.4	8.0	8.5	28.1	1.0	5.5	8.5	25.2	50
18/04/2014	11.6	7.8	1.6	5.9	26.9	7.7	1.6	5.9	26.9	0.1	0.3	0.9	12.9	0.1	0.3	0.9	12.9	50
19/04/2014	14.8	5.3	0.9	2.0	23.0	5.3	0.9	2.0	23.0	0.0	0.4	9.0	24.2	0.0	0.1	9.0	23.9	50
20/04/2014	11.8	6.6	4.8	6.8	29.9	5.5	4.7	6.8	28.7	2.8	2.3	4.3	21.2	2.4	2.1	4.3	20.6	50
21/04/2014	11.9	6.2	3.2	3.9	25.3	5.4	3.2	3.9	24.5	0.1	0.4	1.8	14.2	0.1	0.4	1.8	14.2	50
22/04/2014	12.8	6.8	5.7	9.4	34.8	5.9	5.3	9.4	33.5	0.5	0.4	1.1	14.9	0.5	0.4	1.1	14.9	50
23/04/2014	13.7	6.0	4.0	6.0	29.8	6.0	4.0	6.0	29.8	0.1	0.1	1.1	15.0	0.1	0.1	1.1	15.0	50
24/04/2014	14.8	5.4	2.0	7.2	29.5	5.4	2.0	7.2	29.5	0.2	0.1	0.8	15.9	0.2	0.1	0.8	15.9	50
25/04/2014	8.9	0.0	0.0	7.4	16.4	0.0	0.0	7.4	16.4	0.1	2.4	10.8	22.2	0.1	2.4	10.8	22.2	50
26/04/2014	8.7	7.7	4.6	8.9	29.9	7.5	4.6	8.9	29.7	0.4	0.3	1.4	10.7	0.4	0.3	1.4	10.7	50
27/04/2014	11.5	1.6	4.1	5.6	22.9	1.6	4.1	5.6	22.9	0.9	4.4	19.7	36.5	0.9	3.9	19.7	36.0	50
28/04/2014	8.1	0.0	0.0	3.7	11.8	0.0	0.0	3.7	11.8	0.0	3.3	16.7	28.2	0.0	3.2	16.7	28.1	50
29/04/2014	6.7	4.0	3.5	6.7	20.8	4.0	3.5	6.7	20.8	2.1	0.9	3.5	13.2	2.1	0.9	3.5	13.2	50
30/04/2014	7.2	7.8	1.8	7.9	24.8	7.5	1.8	7.9	24.3	0.1	0.0	0.3	7.6	0.1	0.0	0.3	7.6	50
1/05/2014	13.0	1.8	2.1	9.1	26.0	1.8	2.1	9.1	26.0	1.6	7.3	12.3	34.2	1.6	6.9	12.3	33.8	50
2/05/2014	8.2	7.5	5.1	3.5	24.4	6.5	5.0	3.5	23.3	0.3	0.7	2.0	11.2	0.3	0.7	2.0	11.2	50
3/05/2014	6.5	6.3	0.8	0.1	13.7	6.2	0.8	0.1	13.6	0.0	0.0	0.0	6.5	0.0	0.0	0.0	6.5	50
4/05/2014	7.2	1.9	0.3	0.0	9.4	1.8	0.3	0.0	9.3	0.0	0.0	0.0	7.2	0.0	0.0	0.0	7.2	50
5/05/2014	6.9	11.3	0.6	0.2	19.0	11.3	0.6	0.2	19.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	6.9	50
6/05/2014	6.8	10.9	2.8	4.4	24.9	10.9	2.8	4.4	24.9	0.2	0.1	0.6	7.7	0.2	0.1	0.6	7.7	50
7/05/2014	14.4	3.5	0.8	8.2	26.9	3.5	0.8	8.2	26.9	1.1	0.7	15.7	31.8	1.1	0.6	15.7	31.7	50
8/05/2014	14.2	0.2	0.2	10.2	24.9	0.1	0.2	10.2	24.8	7.8	9.0	17.4	48.4	4.2	6.7	17.4	42.5	50
9/05/2014	12.4	1.0	1.6	7.0	22.0	0.5	1.3	7.0	21.2	3.6	13.1	12.5	41.5	1.5	10.2	12.5	36.6	50
10/05/2014	9.0	6.9	2.5	10.5	28.9	6.9	2.5	10.5	28.9	2.0	1.3	4.2	16.6	2.0	1.3	4.2	16.5	50
11/05/2014	7.4	7.1	2.4	5.8	22.7	7.1	2.3	5.8	22.7	3.3	2.7	4.7	18.0	3.0	2.5	4.7	17.6	50
12/05/2014	10.7	2.1	2.6	9.6	25.0	1.9	2.5	9.6	24.8	6.1	3.9	15.4	36.3	6.0	3.6	15.4	35.8	50
13/05/2014	8.1	0.6	0.5	6.7	15.9	0.6	0.5	6.7	15.9	4.9	9.0	18.1	40.1	4.8	9.0	18.1	40.0	50
14/05/2014	7.6	1.0	2.4	9.1	20.0	1.0	2.4	9.1	20.0	2.7	4.3	9.5	24.0	2.6	4.3	9.5	24.0	50

Modelled maximum 24-hour average PM10 concentrations in worst case operational year (Year 11)

Units = µg/m³

Date	PM10 background	Maison Dieu (property 161)								Jerrys Plains (property 308)								Criteria
		Without reactive controls				With reactive controls				Without reactive controls				With reactive controls				
		Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	
15/05/2014	8.0	5.2	3.9	9.0	26.1	5.2	3.9	9.0	26.1	1.5	1.7	4.5	15.7	1.5	1.7	4.5	15.7	50
16/05/2014	9.5	5.9	1.1	11.5	28.0	5.9	1.1	11.5	28.0	1.5	2.5	3.5	17.0	1.5	2.5	3.5	17.0	50
17/05/2014	8.5	7.1	2.3	10.5	28.4	6.5	2.3	10.5	27.8	1.5	0.6	2.4	13.0	1.5	0.6	2.4	13.0	50
18/05/2014	8.7	7.3	3.3	9.6	28.9	7.3	3.3	9.6	28.9	1.6	0.9	3.0	14.2	1.6	0.9	3.0	14.2	50
19/05/2014	10.7	8.2	4.6	7.1	30.6	8.2	4.6	7.1	30.6	0.2	0.2	0.4	11.6	0.2	0.2	0.4	11.6	50
20/05/2014	11.6	13.5	2.0	6.5	33.6	12.7	1.9	6.5	32.8	0.0	0.0	0.0	11.7	0.0	0.0	0.0	11.7	50
21/05/2014	14.1	5.8	0.7	4.5	25.1	5.8	0.7	4.5	25.1	4.9	4.0	3.5	26.5	4.6	4.0	3.5	26.2	50
22/05/2014	11.5	9.9	2.1	9.9	33.4	9.3	2.0	9.9	32.6	0.6	0.3	1.1	13.5	0.5	0.3	1.1	13.4	50
23/05/2014	11.6	16.2	1.6	5.9	35.4	14.6	1.6	5.9	33.7	0.1	0.0	0.1	11.8	0.1	0.0	0.1	11.8	50
24/05/2014	13.0	7.1	0.8	0.9	21.9	7.1	0.8	0.9	21.9	0.0	0.0	0.0	13.0	0.0	0.0	0.0	13.0	50
25/05/2014	12.6	6.4	8.1	4.5	31.7	6.4	8.1	4.5	31.7	0.2	0.5	1.0	14.3	0.2	0.5	1.0	14.3	50
26/05/2014	12.6	4.1	2.9	9.3	28.9	3.8	2.9	9.3	28.6	0.5	1.6	4.4	19.1	0.5	1.6	4.4	19.1	50
27/05/2014	15.4	9.2	5.4	8.3	38.2	9.2	4.7	8.3	37.5	1.6	1.1	2.5	20.6	1.6	1.1	2.5	20.6	50
28/05/2014	7.9	0.6	13.5	1.5	23.5	0.5	11.6	1.5	21.5	0.0	0.0	0.0	7.9	0.0	0.0	0.0	7.9	50
29/05/2014	11.3	7.3	0.4	6.6	25.6	7.3	0.4	6.6	25.6	0.2	9.1	12.8	33.3	0.1	6.6	12.8	30.7	50
30/05/2014	11.6	0.0	0.0	3.0	14.6	0.0	0.0	3.0	14.6	0.1	0.3	20.3	32.2	0.1	0.3	20.3	32.2	50
31/05/2014	8.4	0.4	0.1	5.3	14.1	0.4	0.1	5.3	14.1	4.6	6.9	19.0	38.9	4.3	6.8	19.0	38.5	50
1/06/2014	6.5	0.4	0.8	6.8	14.4	0.4	0.8	6.8	14.4	3.5	6.1	17.3	33.4	3.5	6.0	17.3	33.3	50
2/06/2014	5.0	9.9	4.2	8.5	27.7	9.9	4.2	8.5	27.7	2.6	0.5	2.1	10.2	2.6	0.5	2.1	10.2	50
3/06/2014	4.4	8.3	1.0	0.6	14.1	6.4	0.9	0.6	12.1	0.0	0.0	0.0	4.4	0.0	0.0	0.0	4.4	50
4/06/2014	7.8	8.3	2.1	4.0	22.1	8.3	2.0	4.0	22.1	0.9	5.1	4.0	17.7	0.8	4.9	4.0	17.5	50
5/06/2014	11.8	5.6	0.8	8.6	26.9	4.3	0.8	8.6	25.6	2.3	1.4	8.6	24.1	2.3	1.3	8.6	24.1	50
6/06/2014	6.4	0.1	0.2	7.2	13.9	0.1	0.2	7.2	13.9	1.9	1.1	8.9	18.3	1.9	1.1	8.9	18.2	50
7/06/2014	6.8	0.1	0.5	7.2	14.5	0.1	0.5	7.2	14.5	2.0	3.7	12.3	24.9	2.0	3.7	12.3	24.9	50
8/06/2014	7.8	4.6	1.5	8.9	22.8	4.6	1.5	8.9	22.8	0.9	1.6	13.5	23.7	0.8	1.5	13.5	23.6	50
9/06/2014	6.6	4.0	1.1	8.1	19.7	3.9	1.1	8.1	19.7	2.0	1.0	11.9	21.5	2.0	1.0	11.9	21.4	50
10/06/2014	8.9	0.0	0.0	0.3	9.3	0.0	0.0	0.3	9.3	0.1	5.2	30.5	44.9	0.1	4.6	30.5	44.2	50
11/06/2014	9.1	1.4	0.6	8.9	20.0	1.3	1.1	8.9	20.4	6.8	6.1	16.7	38.8	4.6	5.2	16.7	35.5	50
12/06/2014	7.5	5.6	4.0	10.5	27.6	5.5	4.0	10.5	27.5	2.1	1.7	3.9	15.3	2.0	1.7	3.9	15.1	50
13/06/2014	11.8	8.0	4.1	12.0	35.9	8.0	4.3	12.0	36.1	9.4	1.3	4.1	26.6	9.4	1.4	4.1	26.6	50
14/06/2014	5.6	12.5	1.1	2.8	22.0	11.3	1.0	2.8	20.7	0.1	0.0	0.1	5.8	0.1	0.0	0.1	5.8	50
15/06/2014	6.9	4.4	0.3	0.0	11.7	4.4	0.3	0.0	11.7	0.0	0.0	0.0	6.9	0.0	0.0	0.0	6.9	50
16/06/2014	7.3	9.7	0.5	0.0	17.5	9.7	0.5	0.0	17.5	0.0	0.0	0.0	7.3	0.0	0.0	0.0	7.3	50
17/06/2014	5.6	9.3	2.2	3.3	20.4	9.3	2.2	3.3	20.4	0.1	0.0	0.3	6.1	0.1	0.0	0.3	6.1	50
18/06/2014	9.2	9.1	1.0	10.4	29.8	7.9	0.9	10.4	28.4	13.3	0.4	3.2	26.1	10.5	0.3	3.2	23.2	50
19/06/2014	6.4	4.5	3.1	6.7	20.8	4.5	3.1	6.7	20.7	3.9	2.3	6.3	18.9	3.9	2.2	6.3	18.8	50
20/06/2014	6.2	10.3	5.4	10.0	31.9	9.6	5.3	10.0	31.1	0.4	0.2	0.6	7.4	0.3	0.1	0.6	7.3	50
21/06/2014	5.8	7.5	4.7	7.2	25.3	7.5	4.7	7.2	25.3	0.3	0.4	1.3	7.7	0.3	0.4	1.3	7.7	50
22/06/2014	9.4	2.8	1.8	8.9	22.9	2.8	1.8	8.9	22.9	2.1	8.8	8.8	29.2	2.0	6.4	8.8	26.6	50
23/06/2014	7.4	7.5	2.1	6.1	23.1	7.5	2.0	6.1	23.1	0.3	0.2	0.9	8.8	0.3	0.1	0.9	8.8	50
24/06/2014	13.9	2.9	0.4	0.0	17.2	2.7	0.4	0.0	16.9	0.0	0.0	0.0	13.9	0.0	0.0	0.0	13.9	50
25/06/2014	9.6	2.6	0.3	0.0	12.5	2.6	0.3	0.0	12.5	0.0	0.0	0.0	9.6	0.0	0.0	0.0	9.6	50
26/06/2014	10.8	5.4	1.2	0.1	17.6	5.4	1.2	0.1	17.6	0.0	0.0	0.0	10.8	0.0	0.0	0.0	10.8	50
27/06/2014	8.9	7.9	1.0	9.7	27.4	7.9	1.0	9.7	27.4	0.1	0.0	0.1	9.0	0.1	0.0	0.1	9.0	50
28/06/2014	9.5	3.7	3.0	6.0	22.3	3.6	2.8	6.0	21.9	4.1	2.9	3.8	20.3	4.1	2.9	3.8	20.3	50
29/06/2014	8.0	1.9	0.2	0.0	10.1	1.9	0.2	0.0	10.1	0.0	0.0	0.0	8.0	0.0	0.0	0.0	8.0	50
30/06/2014	6.5	7.9	3.2	0.1	17.8	7.9	3.2	0.1	17.8	0.0	0.0	0.0	6.5	0.0	0.0	0.0	6.5	50
1/07/2014	6.0	10.0	0.5	0.3	16.9	10.0	0.5	0.3	16.9	0.0	0.0	0.0	6.0	0.0	0.0	0.0	6.0	50
2/07/2014	7.5	12.2	2.6	9.5	31.8	10.2	2.5	9.5	29.7	3.8	0.9	2.3	14.4	3.8	0.9	2.3	14.4	50
3/07/2014	9.4	8.2	3.1	7.8	28.6	7.1	3.0	7.8	27.3	0.2	0.1	0.5	10.1	0.2	0.1	0.5	10.1	50
4/07/2014	10.1	13.7	1.2	3.5	28.5	13.7	1.2	3.5	28.5	0.0	0.0	0.0	10.1	0.0	0.0	0.0	10.1	50
5/07/2014	8.1	5.7	0.8	2.2	16.9	5.7	0.8	2.2	16.9	0.0	0.0	0.0	8.1	0.0	0.0	0.0	8.1	50
6/07/2014	6.0	6.8	0.3	0.0	13.2	6.8	0.3	0.0	13.2	0.0	0.0	0.0	6.0	0.0	0.0	0.0	6.0	50
7/07/2014	5.7	12.6	0.6	2.0	20.9	12.6	0.6	2.0	20.9	0.0	0.0	0.0	5.7	0.0	0.0	0.0	5.7	50
8/07/2014	5.6	11.4	1.8	3.3	22.1	11.4	1.8	3.3	22.1	0.0	0.0	0.0	5.7	0.0	0.0	0.0	5.7	50
9/07/2014	10.7	5.8	3.2	4.1	23.8	5.7	3.2	4.1	23.7	0.0	0.0	0.0	10.7	0.0	0.0	0.0	10.7	50
10/07/2014	12.8	4.0	0.2	0.0	17.1	3.9	0.2	0.0	17.0	0.0	0.0	0.0	12.8	0.0	0.0	0.0	12.8	50
11/07/2014	7.6	5.6	0.3	0.0	13.5	5.6	0.3	0.0	13.5	0.0	0.0	0.0	7.6	0.0	0.0	0.0	7.6	50
12/07/2014	7.6	2.8	1.9	0.2	12.5	2.8	1.9	0.2	12.5	0.0	0.0	0.0	7.6	0.0	0.0	0.0	7.6	50
13/07/2014	9.5	0.0	0.7	7.8	18.0	0.0	0.7	7.8	18.0	0.7	3.7	20.8	34.8	0.3	2.4	20.8	33.0	50
14/07/2014	16.8	2.7	1.1	8.8	29.5	2.2	1.0	8.8	28.8	1.2	9.1	11.9	38.9	0.8	4.7	11.9	34.1	50
15/07/2014	19.4	0.5	2.3	7.9	30.1	0.4	2.1	7.9	29.7	5.0	6.0	13.8	44.2	3.7	4.0	13.8	40.9	50
16/07/2014	7.2	3.4	3.8	6.1	20.5	3.2	3.8	6.1	20.3	1.8	1.9	3.0	13.8	1.5	1.9	3.0	13.6	50
17/07/2014	5.2	7.2	1.7	1.3	15.4	7.2	1.7	1.3	15.4	0.0	0.0	0.0	5.2	0.0	0.0	0.0	5.2	50
18/07/2014	5.8	7.6	3.5	0.6	17.5	7.6	3.5	0.6	17.5	0.0	0.0	0.0	5.8	0.0	0.0	0.0	5.8	50
19/07/2014	7.2	4.3	0.8	5.5	17.8	4.3	0.8	5.5	17.8	0.0	1.3	3.6	12.1	0.0	1.3	3.6	12.1	50
20/07/2014	14.2	0.0	2.5	5.6	22.2	0.0	2.5	5.6	22.2	0.1	1.0	21.5	36.8	0.1	0.7	21.5	36.5	50

Modelled maximum 24-hour average PM10 concentrations in worst case operational year (Year 11)

Units = µg/m³

Date	PM10 background	Maison Dieu (property 161)								Jerrys Plains (property 308)								Criteria
		Without reactive controls				With reactive controls				Without reactive controls				With reactive controls				
		Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	
21/07/2014	12.7	0.7	1.1	5.6	20.1	0.7	1.1	5.6	20.1	3.3	11.1	12.9	40.0	3.1	8.3	12.9	37.0	50
22/07/2014	11.6	0.2	0.1	6.6	18.5	0.1	0.1	6.6	18.4	2.7	7.5	19.0	40.8	1.9	6.8	19.0	39.3	50
23/07/2014	9.4	3.1	1.6	7.5	21.6	3.1	1.6	7.5	21.6	2.4	4.1	14.0	30.0	2.4	4.1	14.0	30.0	50
24/07/2014	9.9	2.9	1.9	8.8	23.5	2.9	1.9	8.8	23.5	4.3	5.9	10.1	30.2	4.2	5.9	10.1	30.0	50
25/07/2014	9.4	8.4	6.3	12.0	36.0	6.9	6.2	12.0	34.5	1.7	3.0	3.2	17.2	1.7	3.0	3.2	17.1	50
26/07/2014	4.2	15.0	2.0	10.2	31.4	14.5	1.8	10.2	30.7	0.1	0.0	0.1	4.4	0.1	0.0	0.1	4.3	50
27/07/2014	4.1	17.7	0.9	6.4	29.0	17.1	0.8	6.4	28.4	0.0	0.0	0.0	4.1	0.0	0.0	0.0	4.1	50
28/07/2014	5.7	8.2	1.1	0.3	15.3	8.2	1.1	0.3	15.3	0.0	0.0	0.0	5.7	0.0	0.0	0.0	5.7	50
29/07/2014	5.5	6.4	0.5	0.0	12.4	6.4	0.5	0.0	12.4	0.0	0.0	0.0	5.5	0.0	0.0	0.0	5.5	50
30/07/2014	8.0	5.6	1.5	0.0	15.0	5.6	1.5	0.0	15.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	8.0	50
31/07/2014	7.6	6.3	0.5	0.3	14.8	6.3	0.5	0.3	14.8	0.0	0.0	0.0	7.6	0.0	0.0	0.0	7.6	50
1/08/2014	10.3	2.2	0.8	0.0	13.4	2.2	0.7	0.0	13.3	0.0	0.0	0.0	10.3	0.0	0.0	0.0	10.3	50
2/08/2014	10.3	6.2	0.5	1.7	18.7	6.2	0.5	1.7	18.6	1.0	10.3	6.4	28.0	0.3	5.3	6.4	22.3	50
3/08/2014	18.3	2.2	2.2	7.5	30.2	1.6	2.0	7.5	29.4	3.7	5.3	14.0	41.4	2.4	4.4	14.0	39.1	50
4/08/2014	12.7	1.0	1.0	8.6	23.3	1.0	0.9	8.6	23.2	4.0	7.4	12.7	36.8	3.8	6.2	12.7	35.5	50
5/08/2014	12.4	4.4	0.8	6.4	24.0	4.4	0.8	6.4	24.0	0.7	0.7	10.1	23.9	0.7	0.7	10.1	23.9	50
6/08/2014	12.2	7.3	1.1	6.4	27.1	6.6	1.1	6.4	26.3	1.1	0.6	3.8	17.6	1.1	0.6	3.8	17.6	50
7/08/2014	13.3	6.4	0.4	2.6	22.7	6.4	0.4	2.6	22.7	2.7	2.3	4.8	23.1	2.7	1.9	4.8	22.7	50
8/08/2014	14.6	1.9	0.9	8.2	25.7	1.9	0.9	8.2	25.7	1.5	7.0	7.8	30.9	1.5	5.8	7.8	29.8	50
9/08/2014	10.0	7.5	1.2	8.0	26.7	7.5	1.2	8.0	26.7	0.3	0.2	0.9	11.4	0.3	0.2	0.9	11.3	50
10/08/2014	8.6	6.5	0.9	0.2	16.1	6.5	0.9	0.2	16.1	0.0	0.0	0.0	8.6	0.0	0.0	0.0	8.6	50
11/08/2014	14.9	6.1	0.5	6.9	28.3	6.1	0.5	6.9	28.3	0.3	2.3	14.3	31.6	0.2	0.8	14.3	30.2	50
12/08/2014	14.2	0.0	0.0	3.2	17.4	0.0	0.0	3.2	17.4	0.3	2.7	19.2	36.4	0.3	2.4	19.2	36.1	50
13/08/2014	13.3	0.0	0.0	1.8	15.1	0.0	0.0	1.8	15.1	0.6	11.8	25.0	50.7	0.2	7.5	25.0	46.0	50
14/08/2014	10.5	1.0	0.7	7.0	19.1	0.7	0.8	7.0	19.0	5.6	8.6	13.5	38.2	3.6	5.5	13.5	33.0	50
15/08/2014	14.7	0.2	1.5	4.7	21.1	0.2	1.4	4.7	21.1	2.0	6.9	11.0	34.6	1.9	6.7	11.0	34.3	50
16/08/2014	8.7	0.1	0.0	4.8	13.6	0.1	0.0	4.8	13.6	4.2	7.0	14.9	34.8	3.2	5.2	14.9	32.0	50
17/08/2014	4.0	2.5	0.7	0.3	7.5	2.5	0.7	0.3	7.5	0.1	1.3	10.2	15.7	0.1	1.3	10.2	15.7	50
18/08/2014	3.7	2.5	0.8	2.0	9.0	2.5	0.8	2.0	9.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	3.7	50
19/08/2014	7.5	0.2	11.1	5.9	24.8	0.0	8.9	5.9	22.4	0.0	0.0	2.3	9.9	0.0	0.0	2.3	9.9	50
20/08/2014	10.6	0.0	0.0	4.4	15.0	0.0	0.0	4.4	15.0	0.0	2.7	16.1	29.4	0.0	1.2	16.1	27.9	50
21/08/2014	8.1	0.0	0.0	1.0	9.1	0.0	0.0	1.0	9.1	0.4	1.0	22.2	31.8	0.4	1.0	22.2	31.8	50
22/08/2014	8.2	0.0	0.0	0.4	8.6	0.0	0.0	0.4	8.5	0.4	6.9	28.0	43.5	0.1	3.3	28.0	39.6	50
23/08/2014	7.3	0.0	0.0	0.9	8.2	0.0	0.0	0.9	8.2	0.1	2.2	29.1	38.7	0.1	1.3	29.1	37.8	50
24/08/2014	8.4	0.0	0.0	4.2	12.7	0.0	0.0	4.2	12.7	1.4	12.5	16.2	38.5	0.3	8.8	16.2	33.8	50
25/08/2014	8.7	4.9	2.7	5.7	22.0	4.5	2.7	5.7	21.5	1.7	2.3	7.2	19.9	1.7	2.3	7.2	19.9	50
26/08/2014	6.9	0.0	0.0	0.4	7.3	0.0	0.0	0.4	7.3	0.0	0.3	19.8	27.1	0.0	0.3	19.8	27.0	50
27/08/2014	6.6	0.0	0.0	0.0	6.6	0.0	0.0	0.0	6.6	0.0	0.0	17.2	23.8	0.0	0.0	17.2	23.8	50
28/08/2014	9.6	0.0	0.0	0.5	10.1	0.0	0.0	0.5	10.1	0.0	0.0	12.6	22.2	0.0	0.0	12.6	22.2	50
29/08/2014	8.4	0.5	1.0	6.5	16.4	0.5	1.0	6.5	16.4	1.1	2.7	13.8	26.1	1.1	2.7	13.8	26.1	50
30/08/2014	6.1	0.0	0.0	17.5	23.7	0.0	0.0	17.5	23.7	0.3	0.8	13.0	20.2	0.3	0.8	13.0	20.1	50
31/08/2014	9.0	1.9	1.5	9.2	21.8	1.9	1.5	9.2	21.8	1.9	1.4	6.2	18.5	1.9	1.4	6.2	18.5	50
1/09/2014	6.1	8.8	2.7	9.9	27.5	8.7	2.7	9.9	27.3	0.2	0.2	0.5	7.0	0.2	0.2	0.5	7.0	50
2/09/2014	6.4	2.4	5.1	2.6	16.5	2.4	5.1	2.6	16.5	0.0	0.0	0.0	6.5	0.0	0.0	0.0	6.5	50
3/09/2014	5.3	0.0	4.4	9.0	18.6	0.0	4.4	9.0	18.6	0.0	0.0	0.5	5.8	0.0	0.0	0.5	5.8	50
4/09/2014	8.3	3.6	2.5	7.3	21.7	3.5	2.4	7.3	21.5	0.0	1.7	9.8	19.7	0.0	1.7	9.8	19.7	50
5/09/2014	10.2	0.0	0.0	4.5	14.8	0.0	0.0	4.5	14.8	0.0	0.3	13.5	24.0	0.0	0.3	13.5	24.0	50
6/09/2014	8.3	0.0	0.0	0.2	8.5	0.0	0.0	0.2	8.5	0.6	0.4	18.3	27.5	0.6	0.4	18.3	27.5	50
7/09/2014	8.2	0.0	0.0	2.1	10.3	0.0	0.0	2.1	10.2	1.3	8.3	20.7	38.5	0.6	6.2	20.7	35.8	50
8/09/2014	5.9	0.0	0.1	6.0	12.0	0.0	0.1	6.0	12.0	0.8	6.8	12.7	26.2	0.8	6.8	12.7	26.2	50
9/09/2014	7.1	6.2	1.6	12.5	27.4	5.8	1.5	12.5	26.9	1.6	0.9	3.6	13.2	1.6	0.9	3.6	13.2	50
10/09/2014	8.6	1.6	11.5	4.1	25.9	0.6	9.8	4.1	23.2	0.1	0.1	0.3	9.1	0.0	0.1	0.3	9.0	50
11/09/2014	9.7	8.0	3.4	0.9	21.9	8.0	3.4	0.9	21.9	0.0	0.0	0.0	9.7	0.0	0.0	0.0	9.7	50
12/09/2014	14.7	0.0	0.1	3.3	18.1	0.0	0.1	3.3	18.1	0.3	6.3	11.0	32.3	0.2	6.2	11.0	32.1	50
13/09/2014	13.2	0.0	0.0	5.3	18.5	0.0	0.0	5.3	18.5	0.1	3.4	10.6	27.3	0.1	3.4	10.6	27.3	50
14/09/2014	8.6	4.7	2.8	6.3	22.4	4.5	2.8	6.3	22.2	2.3	1.3	5.6	17.7	2.3	1.3	5.6	17.7	50
15/09/2014	16.5	1.6	0.7	3.2	21.9	1.3	0.4	3.2	21.4	1.1	6.0	14.3	37.9	0.6	3.4	14.3	34.8	50
16/09/2014	17.1	0.3	2.8	2.6	22.7	0.2	2.8	2.6	22.6	1.7	2.4	10.8	32.0	1.1	1.9	10.8	30.8	50
17/09/2014	10.8	1.5	3.9	1.0	17.3	1.5	3.9	1.0	17.3	0.0	0.0	0.0	10.8	0.0	0.0	0.0	10.8	50
18/09/2014	10.3	6.8	0.7	7.2	25.0	4.7	0.6	7.2	22.8	0.0	1.6	7.3	19.1	0.0	1.5	7.3	19.1	50
19/09/2014	13.0	5.7	1.9	11.1	31.7	5.7	1.9	11.1	31.7	2.3	0.7	2.9	18.8	2.2	0.7	2.9	18.8	50
20/09/2014	15.9	2.8	0.9	6.7	26.3	2.6	0.9	6.7	26.1	1.6	3.9	7.9	29.2	1.6	3.9	7.9	29.2	50
21/09/2014	13.9	0.5	0.3	5.4	20.2	0.5	0.3	5.4	20.1	4.2	7.5	11.3	36.9	3.8	7.3	11.3	36.4	50
22/09/2014	14.1	0.3	0.2	6.7	21.3	0.3	0.2	6.7	21.3	3.7	6.1	7.4	31.3	3.5	6.1	7.4	31.2	50
23/09/2014	13.4	0.8	0.8	7.1	22.1	0.8	0.8	7.1	22.1	2.3	3.9	7.0	26.6	2.3	3.9	7.0	26.6	50
24/09/2014	10.5	3.5	1.7	7.3	22.9	3.5	1.7	7.3	22.9	2.1	1.0	3.3	16.9	2.1	1.0	3.3	16.9	50
25/09/2014	8.9	3.4	2.6	7.2	22.0	3.4	2.6	7.2	22.0	1.3	2.9	5.9	19.0	1.3	2.9	5.9	19.0	50

Modelled maximum 24-hour average PM10 concentrations in worst case operational year (Year 11)

Units = $\mu\text{g}/\text{m}^3$

Date	PM10 background	Maison Dieu (property 161)								Jerrys Plains (property 308)								Criteria
		Without reactive controls				With reactive controls				Without reactive controls				With reactive controls				
		Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	
26/09/2014	11.4	1.0	1.7	5.7	19.8	1.0	1.7	5.7	19.8	4.0	3.0	6.7	25.2	4.0	2.0	6.7	24.1	50
27/09/2014	14.9	0.0	0.0	5.5	20.5	0.0	0.0	5.5	20.5	0.1	4.1	8.6	27.7	0.1	4.1	8.6	27.7	50
28/09/2014	10.6	4.7	2.0	5.9	23.2	4.7	2.0	5.9	23.2	2.3	0.6	1.8	15.3	2.3	0.6	1.8	15.3	50
29/09/2014	18.6	6.6	0.6	4.4	30.2	5.1	0.5	4.4	28.6	0.1	0.2	0.5	19.4	0.1	0.2	0.5	19.3	50
30/09/2014	16.9	8.4	0.4	2.0	27.7	7.9	0.4	2.0	27.1	0.0	0.0	0.0	16.9	0.0	0.0	0.0	16.9	50
1/10/2014	17.3	4.1	1.5	5.2	28.1	3.3	1.4	5.2	27.3	0.0	3.0	3.7	24.0	0.0	3.0	3.7	24.0	50
2/10/2014	17.3	4.7	2.4	7.6	32.0	4.3	2.4	7.6	31.5	1.3	0.4	2.0	20.9	1.3	0.4	2.0	20.9	50
3/10/2014	22.2	2.9	0.8	4.2	30.0	2.8	0.8	4.2	30.0	0.6	3.7	5.2	31.7	0.6	3.7	5.2	31.7	50
4/10/2014	18.9	0.4	0.4	3.5	23.3	0.4	0.4	3.5	23.3	4.6	2.0	9.2	34.7	3.9	1.9	9.2	33.9	50
5/10/2014	15.8	6.9	1.0	7.4	31.0	6.4	0.9	7.4	30.5	0.2	0.1	0.2	16.3	0.2	0.1	0.2	16.3	50
6/10/2014	28.6	0.2	0.5	4.9	34.2	0.0	0.2	4.9	33.7	3.7	8.8	14.6	55.7	0.0	0.0	14.6	43.2	50
7/10/2014	24.3	3.7	0.8	2.0	30.8	1.7	0.5	2.0	28.5	0.3	0.5	5.9	31.0	0.0	0.3	5.9	30.5	50
8/10/2014	14.0	0.0	0.0	3.4	17.5	0.0	0.0	3.4	17.5	0.0	3.8	11.4	29.2	0.0	3.8	11.4	29.2	50
9/10/2014	12.7	0.0	0.1	5.0	17.9	0.0	0.1	5.0	17.9	0.6	5.3	10.2	28.8	0.6	5.2	10.2	28.7	50
10/10/2014	15.9	2.5	0.6	6.4	25.3	2.5	0.6	6.4	25.3	6.1	2.1	9.2	33.3	6.0	1.0	9.2	32.2	50
11/10/2014	19.6	1.6	0.3	4.5	26.0	1.4	0.3	4.5	25.7	4.3	4.7	10.3	38.9	2.1	3.9	10.3	35.9	50
12/10/2014	22.7	1.0	0.8	8.7	33.3	0.9	0.7	8.7	33.0	6.5	3.9	7.0	40.1	6.0	2.7	7.0	38.5	50
13/10/2014	21.1	1.9	1.3	5.9	30.2	1.9	1.3	5.9	30.1	3.1	1.8	4.3	30.3	3.1	1.9	4.3	30.4	50
14/10/2014	7.5	1.0	4.8	1.8	15.0	1.0	4.8	1.8	15.0	0.0	0.2	0.3	8.0	0.0	0.2	0.3	8.0	50
15/10/2014	4.3	0.1	2.4	2.6	9.3	0.1	2.4	2.6	9.3	0.0	0.1	0.5	4.8	0.0	0.1	0.5	4.8	50
16/10/2014	10.0	1.6	2.6	4.2	18.4	1.6	2.6	4.2	18.4	0.1	0.5	4.5	15.0	0.1	0.5	4.5	15.0	50
17/10/2014	13.1	2.3	0.6	5.2	21.1	2.1	0.5	5.2	20.8	1.6	3.5	8.8	27.0	0.9	3.1	8.8	25.9	50
18/10/2014	14.0	0.0	0.0	2.7	16.6	0.0	0.0	2.7	16.6	0.1	4.3	14.7	33.0	0.0	4.2	14.7	32.9	50
19/10/2014	13.9	2.0	0.7	7.1	23.7	2.0	0.7	7.1	23.7	3.7	2.5	8.2	28.2	3.7	2.4	8.2	28.2	50
20/10/2014	20.4	3.0	0.7	5.2	29.3	2.1	0.4	5.2	28.2	0.3	1.5	7.2	29.4	0.3	1.5	7.2	29.3	50
21/10/2014	15.3	0.0	0.0	0.0	15.3	0.0	0.0	0.0	15.3	0.0	1.4	14.5	31.2	0.0	1.4	14.5	31.2	50
22/10/2014	13.4	0.1	0.0	5.2	18.8	0.1	0.0	5.2	18.8	0.4	2.8	9.5	26.0	0.4	2.8	9.5	26.0	50
23/10/2014	23.7	3.4	0.5	5.4	33.0	3.0	0.5	5.4	32.6	4.2	5.3	10.2	43.4	4.0	5.1	10.2	43.0	50
24/10/2014	23.8	1.2	0.5	6.4	31.8	0.6	0.6	6.4	31.3	2.6	3.2	8.6	38.1	1.5	2.8	8.6	36.7	50
25/10/2014	17.3	3.0	1.2	2.2	23.7	3.0	1.2	2.2	23.7	0.7	3.3	6.2	27.5	0.7	3.4	6.2	27.5	50
26/10/2014	22.3	0.6	0.5	1.4	24.8	0.5	0.4	1.4	24.6	2.3	2.2	10.2	36.9	1.2	1.3	10.2	35.0	50
27/10/2014	28.4	1.1	1.7	1.7	32.9	0.9	1.5	1.7	32.4	0.5	3.0	4.0	35.9	0.0	0.0	4.0	32.4	50
28/10/2014	17.6	1.2	0.8	2.4	22.0	1.2	0.8	2.4	22.0	0.3	0.5	1.1	19.5	0.3	0.5	1.1	19.5	50
29/10/2014	19.6	5.6	0.9	3.3	29.3	5.6	0.9	3.3	29.3	1.5	1.0	3.0	25.1	1.5	1.0	3.0	25.1	50
30/10/2014	23.1	1.8	0.8	4.2	30.0	1.6	0.8	4.2	29.9	1.5	1.4	8.3	34.3	1.5	1.4	8.3	34.3	50
31/10/2014	33.5	5.3	0.8	6.6	46.2	3.8	0.7	6.6	44.6	1.4	0.8	3.3	39.0	1.4	0.9	3.3	39.1	50
1/11/2014	33.8	2.5	0.3	1.2	37.9	0.2	0.2	1.2	35.4	0.0	0.0	0.0	33.8	0.0	0.0	0.0	33.8	50
2/11/2014	13.1	0.8	0.3	1.3	15.5	0.8	0.3	1.3	15.5	0.1	1.3	3.4	17.8	0.1	1.3	3.4	17.8	50
3/11/2014	32.6	0.0	0.0	1.8	34.5	0.0	0.0	1.8	34.5	0.0	3.1	6.0	41.7	0.0	2.7	6.0	41.3	50
4/11/2014	41.2	0.0	0.0	1.9	43.1	0.0	0.0	1.9	43.1	0.8	1.5	7.8	51.3	0.0	0.0	7.8	49.0	50
5/11/2014	18.4	1.6	0.7	6.2	26.8	1.4	0.6	6.2	26.6	1.9	2.8	4.9	28.0	1.5	2.6	4.9	27.4	50
6/11/2014	16.5	4.8	1.9	4.4	27.5	4.8	1.9	4.4	27.5	0.2	3.0	3.2	22.9	0.2	3.0	3.2	22.9	50
7/11/2014	21.4	0.0	0.0	2.3	23.7	0.0	0.0	2.3	23.7	0.0	2.8	5.5	29.8	0.0	2.8	5.5	29.8	50
8/11/2014	17.9	0.0	0.0	3.7	21.6	0.0	0.0	3.7	21.6	0.3	4.0	6.4	28.6	0.3	4.0	6.4	28.6	50
9/11/2014	26.1	2.0	0.2	4.6	32.9	2.0	0.2	4.6	32.9	3.3	2.3	8.1	39.8	3.3	2.3	8.1	39.8	50
10/11/2014	30.5	0.0	0.1	0.9	31.5	0.0	0.1	0.9	31.5	0.0	2.2	11.0	43.7	0.0	2.0	11.0	43.5	50
11/11/2014	20.8	0.0	0.0	0.0	20.8	0.0	0.0	0.0	20.8	0.0	3.5	8.7	33.0	0.0	3.5	8.7	33.0	50
12/11/2014	21.1	0.0	0.0	0.0	21.1	0.0	0.0	0.0	21.1	0.0	2.5	15.3	38.9	0.0	2.5	15.3	38.9	50
13/11/2014	22.2	0.0	0.0	1.5	23.7	0.0	0.0	1.5	23.7	0.0	3.0	6.5	31.7	0.0	3.0	6.5	31.7	50
14/11/2014	23.1	3.3	0.3	6.3	33.0	2.1	0.3	6.3	31.8	3.4	1.9	3.8	32.2	3.4	1.9	3.8	32.2	50
15/11/2014	36.2	0.2	0.7	4.6	41.7	0.2	0.7	4.6	41.7	0.0	2.4	4.0	42.6	0.0	2.3	4.0	42.6	50
16/11/2014	14.3	1.5	1.6	3.7	21.1	1.5	1.6	3.7	21.1	0.3	0.2	2.0	16.8	0.3	0.2	2.0	16.8	50
17/11/2014	11.3	2.7	4.8	2.1	20.9	2.7	4.8	2.1	20.9	0.5	0.7	2.2	14.7	0.5	0.7	2.2	14.7	50
18/11/2014	17.5	1.4	1.2	4.2	24.3	1.4	1.2	4.2	24.3	0.1	2.3	3.5	23.5	0.1	2.3	3.5	23.5	50
19/11/2014	22.5	0.0	0.0	0.6	23.1	0.0	0.0	0.6	23.1	0.0	1.7	6.3	30.5	0.0	1.7	6.3	30.5	50
20/11/2014	16.6	3.6	0.6	5.2	26.1	3.6	0.6	5.2	26.1	1.7	1.4	5.2	24.9	1.7	1.4	5.2	24.9	50
21/11/2014	26.2	2.6	2.2	5.6	36.6	2.4	2.2	5.6	36.4	2.0	0.5	1.9	30.6	2.0	0.5	1.9	30.6	50
22/11/2014	24.9	0.0	0.0	0.7	25.6	0.0	0.0	0.7	25.6	0.4	2.3	12.0	39.6	0.4	1.6	12.0	38.9	50
23/11/2014	25.5	2.4	1.3	2.7	31.9	2.3	1.3	2.7	31.8	2.0	2.2	7.3	36.9	1.2	0.9	7.3	34.9	50
24/11/2014	23.4	3.0	5.6	5.4	37.4	3.0	5.6	5.4	37.4	2.1	2.4	4.7	32.7	2.1	2.1	4.7	32.3	50
25/11/2014	14.0	3.6	0.3	0.5	18.3	3.6	0.3	0.5	18.3	0.0	2.0	3.4	19.3	0.0	2.0	3.4	19.3	50
26/11/2014	28.0	0.0	0.0	0.0	28.0	0.0	0.0	0.0	28.0	0.0	1.0	11.7	40.7	0.0	1.0	11.7	40.7	50
27/11/2014	19.2	0.0	0.0	0.1	19.2	0.0	0.0	0.1	19.2	0.0	1.6	8.0	28.8	0.0	1.6	8.0	28.8	50
28/11/2014	18.1	0.0	0.0	0.0	18.1	0.0	0.0	0.0	18.1	0.0	2.5	10.6	31.2	0.0	2.5	10.6	31.2	50
29/11/2014	19.9	0.2	0.1	3.3	23.6	0.2	0.1	3.3	23.6	1.1	2.6	4.2	27.8	1.1	2.6	4.2	27.8	50
30/11/2014	14.1	1.1	0.1	6.0	21.3	1.1	0.1	6.0	21.2	1.5	1.7	10.3	27.5	1.1	1.4	10.3	26.9	50
1/12/2014	11.1	7.3	3.6	2.4	24.5	7.3	3.6	2.4	24.5	0.7	0.1	0.4	12.4	0.7	0.1	0.4	12.4	50

Modelled maximum 24-hour average PM10 concentrations in worst case operational year (Year 11)

Units = µg/m³

Date	PM10 background	Maison Dieu (property 161)								Jerrys Plains (property 308)								Criteria
		Without reactive controls				With reactive controls				Without reactive controls				With reactive controls				
		Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	Due to HVO N	Due to HVO S	Due to other mines	Cumulative	
2/12/2014	16.0	4.4	4.2	2.8	27.3	4.4	4.2	2.8	27.3	0.4	0.4	3.7	20.4	0.4	0.4	3.7	20.4	50
3/12/2014	15.9	1.4	1.2	4.8	23.3	1.4	1.2	4.8	23.3	1.0	2.3	6.9	26.2	1.0	2.3	6.9	26.2	50
4/12/2014	14.0	4.3	0.3	7.4	26.1	4.3	0.3	7.4	26.1	5.0	0.7	2.1	21.7	5.0	0.7	2.1	21.7	50
5/12/2014	10.5	5.1	0.4	1.7	17.8	5.1	0.4	1.7	17.8	0.0	0.3	5.8	16.6	0.0	0.3	5.8	16.6	50
6/12/2014	7.7	1.7	3.3	6.2	18.9	1.7	3.3	6.2	18.9	0.7	2.9	5.4	16.7	0.7	2.9	5.4	16.7	50
7/12/2014	8.4	5.7	1.0	7.3	22.3	5.7	1.0	7.3	22.3	0.8	1.0	5.6	15.8	0.8	1.0	5.6	15.8	50
8/12/2014	10.8	2.5	2.9	5.5	21.7	2.5	2.9	5.5	21.7	1.4	1.0	3.5	16.7	1.4	1.0	3.5	16.7	50
9/12/2014	22.0	0.0	0.0	0.6	22.6	0.0	0.0	0.6	22.6	0.0	2.0	11.2	35.3	0.0	2.0	11.2	35.3	50
10/12/2014	13.5	0.0	0.0	0.1	13.5	0.0	0.0	0.1	13.5	0.0	1.5	13.2	28.2	0.0	1.5	13.2	28.2	50
11/12/2014	6.3	1.3	1.1	6.6	15.3	1.3	1.1	6.6	15.3	0.1	0.1	5.3	11.9	0.1	0.1	5.3	11.9	50
12/12/2014	13.5	0.0	0.0	0.1	13.6	0.0	0.0	0.1	13.6	0.0	0.0	11.4	24.9	0.0	0.0	11.4	24.9	50
13/12/2014	12.3	0.0	0.0	0.1	12.4	0.0	0.0	0.1	12.4	0.0	2.4	12.4	27.1	0.0	2.4	12.4	27.1	50
14/12/2014	15.0	0.2	1.0	3.7	19.9	0.2	1.0	3.7	19.9	2.2	4.2	7.9	29.3	2.2	3.8	7.9	28.9	50
15/12/2014	17.6	0.0	0.0	2.0	19.6	0.0	0.0	2.0	19.6	0.2	4.2	13.6	35.7	0.2	4.5	13.6	36.0	50
16/12/2014	18.4	2.5	0.3	5.5	26.7	2.5	0.3	5.5	26.7	2.7	2.7	7.1	30.9	2.7	2.7	7.1	30.9	50
17/12/2014	37.3	2.1	0.1	0.1	39.5	2.1	0.1	0.1	39.5	0.0	1.4	4.5	43.2	0.0	0.5	4.5	42.3	50
18/12/2014	31.4	2.2	0.2	2.9	36.6	2.2	0.2	2.9	36.7	0.4	0.2	7.9	39.8	0.4	0.3	7.9	40.0	50
19/12/2014	25.5	5.8	0.5	5.2	37.0	5.0	0.4	5.2	36.1	0.0	2.8	4.2	32.6	0.0	2.8	4.2	32.5	50
20/12/2014	20.4	0.0	0.0	0.1	20.5	0.0	0.0	0.1	20.5	0.0	3.0	8.0	31.4	0.0	3.0	8.0	31.4	50
21/12/2014	16.0	0.0	0.0	5.6	21.7	0.0	0.0	5.6	21.7	0.0	3.9	4.4	24.4	0.0	3.9	4.4	24.4	50
22/12/2014	15.9	0.0	0.0	1.9	17.8	0.0	0.0	1.9	17.8	0.0	6.8	10.6	33.3	0.0	5.4	10.6	31.9	50
23/12/2014	11.9	0.7	0.7	3.3	16.6	0.7	0.7	3.3	16.6	1.0	3.0	15.1	31.0	1.0	3.0	15.1	31.0	50
24/12/2014	15.6	2.2	2.9	3.9	24.5	2.2	2.9	3.9	24.5	2.0	2.6	8.6	28.8	2.0	2.6	8.6	28.8	50
25/12/2014	12.1	1.4	0.4	4.6	18.5	1.4	0.4	4.6	18.5	1.2	2.9	18.2	34.4	1.2	3.0	18.2	34.5	50
26/12/2014	10.4	5.0	1.4	5.6	22.5	4.7	1.4	5.6	22.2	0.7	1.3	5.5	18.0	0.7	1.3	5.5	18.0	50
27/12/2014	21.3	0.0	0.0	0.0	21.3	0.0	0.0	0.0	21.3	0.0	0.5	10.0	31.8	0.0	0.5	10.0	31.8	50
28/12/2014	8.5	0.0	0.0	1.3	9.8	0.0	0.0	1.3	9.8	0.0	2.3	9.5	20.3	0.0	2.3	9.5	20.3	50
29/12/2014	7.2	4.0	0.5	8.3	20.0	3.3	0.5	8.3	19.3	0.1	0.5	8.0	15.8	0.1	0.5	8.0	15.8	50
30/12/2014	21.9	7.4	1.4	1.3	32.0	7.3	1.4	1.3	31.9	0.2	0.1	0.9	23.0	0.2	0.1	0.9	23.0	50
Maximum	41.2	17.7	13.5	17.5	46.9	17.1	11.6	17.5	44.6	13.3	16.1	30.5	58.3	10.5	10.2	30.5	52.9	50.0
Minimum	3.7	0.0	0.0	0.0	5.7	0.0	0.0	0.0	5.7	0.0	0.0	0.0	3.7	0.0	0.0	0.0	3.7	50.0
Average	14.0	2.8	1.2	4.2	22.2	2.7	1.2	4.2	22.0	1.2	2.8	8.7	26.6	1.0	2.3	8.7	25.9	50.0