

**WAMBO COAL  
ENVIRONMENTAL REPORTING  
1 MAY – 31 MAY 2017**

17 July 2017

Table 1 - WCPL Surface and Mine Water Dam Results

Site	Date	pH	EC ( $\mu\text{S}/\text{cm}$ )	TSS (mg/L)	Comments
SW01	29 May 2017	7.11	703	8	
SW02	29 May 2017	7.32	634	8	
SW03	29 May 2017	7.11	624	19	
SW04	29 May 2017				No flow
SW05	29 May 2017				No flow
SW06	29 May 2017				No flow
SW07	29 May 2017				No flow
SW08	29 May 2017				No flow
SW12	23 May 2017	8.75	6890		
SW14	23 May 2017	7.39	684		
SW15	23 May 2017	9.02	6680	96	
SW20	23 May 2017				Insufficient water
SW27	29 May 2017				No flow
SW31	23 May 2017	9.03	6890		
SW32a	29 May 2017				No flow
SW38	23 May 2017	9.01	6660		
SW39	29 May 2017				No flow
SW40	29 May 2017	7.11	613	5	5

Table 2 - WCPL HVAS

Site	Date	TSP (UG/m3)
HV01	6 May 2017	51.4
HV01	12 May 2017	51
HV01	18 May 2017	70.10
HV01	24 May 2017	27.20
HV01	30 May 2017	27.10
HV02	6 May 2017	110
HV02	12 May 2017	58.20
HV02	18 May 2017	55.60
HV02	24 May 2017	35.50
HV02	30 May 2017	47.60
HV03	6 May 2017	22.40
HV03	12 May 2017	49.60
HV03	18 May 2017	68
HV03	24 May 2017	14.60
HV03	30 May 2017	14.40
HV04	6 May 2017	37.40
HV04	12 May 2017	85.60
HV04	18 May 2017	79.20
HV04	24 May 2017	17.10
HV04	30 May 2017	15.30

Table 3 - WCPL Depositional Dust Gauges

Site	Date	Ash (g/m <sup>2</sup> )	Total Insoluble Matter (g/m <sup>2</sup> )	AR/IS Ratio	Comment
D01	15 May 2017	4.90	19.70	24.87	
D03	15 May 2017	2	2.40	83.33	
D07	15 May 2017	1.50	2	75	
D09	15 May 2017	1.20	1.50	80	
D11	15 May 2017	1.20	2.30	52.17	
D12	15 May 2017	1.40	1.80	77.77	
D17	15 May 2017	1.20	1.80	66.66	
D19	15 May 2017	1.60	2.20	72.72	
D20	15 May 2017	0.80	1.10	72.72	
D21	15 May 2017	1	1.30	76.92	
D22	15 May 2017	2.40	2.90	82.75	
D23	15 May 2017	1.10	1.40	78.57	
D24	15 May 2017	0.50	0.80	62.5	
D25	15 May 2017	1.60	1.90	84.21	
D26	15 May 2017	1.40	1.70	82.35	

Table 4 - WCPL PM10 Results

Date of Run	PM01 - Coralie (Sentinex 19)		PM02 - Wambo Road (Caban) (Sentinex 20)		PM03 - Thelander (Sentinex 21)		PM04 - Muller (Sentinex 22)	
	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average
1/5/2017	9.70	22.46	13.60	18.83	7.10	16.24	11.30	19.49
2/5/2017	16.80	22.41	25.30	18.89	12.50	16.21	16.30	19.46
3/5/2017	14.70	22.35	17.90	18.88	14.00	16.19	20.00	19.47
4/05/2017	11.60	22.26	14.30	18.84	11.90	16.15	20.20	19.47
5/05/2017	15.40	22.21	19.30	18.84	14.00	16.14	21.20	19.49
6/05/2017	14.60	22.15	53.20	19.12	8.60	16.08	10.20	19.41
7/05/2017	15.70	22.10	28.40	19.19	13.60	16.06	13.90	19.37
8/05/2017	26.50	22.13	23.30	19.22	22.10	16.10	30.90	19.46
9/05/2017	16.20	22.08	32.50	19.33	17.60	16.12	24.60	19.50
10/05/2017	16.70	22.04	16.20	19.30	11.70	16.08	17.00	19.48
11/05/2017	19.60	22.02	25.80	19.35	14.10	16.07	18.10	19.47
12/05/2017	30.10	22.09	31.60	19.44	22.40	16.12	26.50	19.52
13/05/2017	26.50	22.12	26.80	19.50	20.40	16.15	25.90	19.57
14/05/2017	16.20	22.07	12.10	19.44	11.20	16.11	12.90	19.52
15/05/2017	10.60	21.99	17.20	19.43	7.70	16.05	7.10	19.43
16/05/2017	15.20	21.94	23.40	19.46	11.70	16.02	14.50	19.39
17/05/2017	24.20	21.96	25.00	19.50	18.70	16.04	22.70	19.42
18/05/2017	24.80	21.98	27.60	19.56	20.50	16.07	23.40	19.45
19/05/2017	9.50	21.89	9.60	19.48	9.50	16.02	11.20	19.39
20/05/2017	7.50	21.78	5.70	19.39	5.20	15.94	5.50	19.29
21/05/2017	12.40	21.72	10.30	19.32	8.00	15.89	9.50	19.22
22/05/2017	14.30	21.67	13.10	19.28	16.90	15.89	21.40	19.23
23/05/2017	13.47	21.61	13.20	19.24	10.80	15.86	13.70	19.19
24/05/2017	10.30	21.53	11.20	19.18	6.20	15.79	6.50	19.11
25/05/2017	12.30	21.47	14.20	19.14	6.20	15.73	7.40	19.03
26/05/2017	11.50	21.40	18.60	19.14	9.00	15.68	14.30	18.99
27/05/2017	17.50	21.37	13.10	19.10	9.40	15.64	11.60	18.94
28/05/2017	17.30	21.34	14.10	19.07	8.60	15.59	9.30	18.88
29/05/2017	9.80	21.27	25.20	19.11	6.30	15.53	5.00	18.78
30/05/2017	11.00	21.20	15.80	19.09	6.90	15.47	7.30	18.71
31/05/2017	6.05	21.10	13.70	19.05	NaN	15.47	7.30	18.63

Table 5 - WCPL Blast Monitoring Results

Date & Time	ID	BM02 - Kelly		BM05 - Muller		BM07 - Thelander	
		dBL	mm/sec	dBL	mm/sec	dBL	mm/sec
1/05/2017 15:06	Montrose 22_WMA_131	100.2	0.14	100.6	1.08	96.2	1.27
2/05/2017 15:05	ME_21WMA_134	98	0.05	108.5	0.46	101.3	0.23
2/05/2017 15:06	ME_16WMA_88	94.6	0.19	102.3	0.72	96.2	0.51
6/05/2017 11:25	WMB0DD	119.3	0.13	118.4	0.7	107.4	0.29
11/05/2017 10:53	M22WMA_137	96.9	0.11	108.1	0.6	106.8	0.66
11/05/2017 10:54	M_27WWA_130	101.7	0.06	118.5	0.42	106.5	0.42
23/05/2017 15:48	ME_17WMA_126	101	0.1	110.7	0.44	103.9	0.26
23/05/2017 15:54	M_22WTA_138	100.2	0.04	107.8	0.18	100	0.2
23/05/2017 16:14	M22WRC_119	105.5	0.21	98.8	0.4	96	0.48
29/05/2017 15:40	M_22WMA_141	93.4	0.07	96	0.54	91.9	0.47
29/05/2017 15:43	ME_21WMA_139	107.9	0.22	107.2	0.67	96.3	0.44

Table 6 - WCPL Meteorology

Date	Temperature (2m)			Temperature (10m)			Temperature Inversion			Humidity			Solar Radiation			RAIN mm	SUM RAIN mm	Wind Speed		
	Min	Average	Max	Min	Average	Max	Min	Average	Max	Min	Average	Max	Min	Average	Max			Min	Average	Max
01/05/17	7.6	14.9	23.9	8.3	15.7	24.4	-3.2	10.7	31.2	59.4	79.2	91.1	-2.2	140.5	710.5	0.0	0.0	0.0	1.1	4.3
02/05/17	8.6	16.7	25.6	9.7	17.8	26.2	0.6	13.0	34.6	42.2	69.8	90.9	-2.3	160.9	632.2	0.0	0.0	0.0	1.7	5.4
03/05/17	13.2	16.1	18.7	14.7	16.6	18.8	-0.1	7.1	28.7	63.4	68.0	74.8	-1.9	49.1	582.5	0.0	0.0	0.7	2.1	4.0
04/05/17	10.1	15.4	19.5	11.6	16.1	19.8	0.2	8.2	18.5	62.1	72.9	82.3	-1.9	87.8	668.8	0.0	0.0	0.0	1.4	4.5
05/05/17	6.4	13.6	21.5	7.5	14.6	22.2	3.2	12.5	28.7	56.3	76.4	89.1	-2.2	157.3	628.1	0.0	0.0	0.0	0.6	2.0
06/05/17	5.3	14.3	23.9	6.0	15.3	24.2	0.0	13.1	55.8	50.7	73.6	89.1	-2.1	150.7	643.6	0.0	0.0	0.0	1.1	4.6
07/05/17	7.5	16.6	23.7	8.9	17.5	23.8	-4.1	11.0	47.7	40.0	58.2	76.4	-2.3	179.1	696.0	0.0	0.0	0.0	1.8	5.4
08/05/17	5.9	12.7	20.1	7.0	13.5	20.2	-3.0	10.0	22.4	52.9	66.3	80.8	-2.4	157.3	640.5	0.0	0.0	0.0	1.4	4.5
09/05/17	9.1	14.7	20.5	10.4	15.5	20.8	-1.1	10.2	24.5	50.2	65.2	77.8	-2.3	160.0	630.8	0.0	0.0	0.0	1.2	3.2
10/05/17	4.7	12.3	20.8	5.7	13.3	21.1	-0.5	12.4	34.6	53.1	73.6	87.7	-2.6	158.5	673.4	0.0	0.0	0.0	0.7	2.3
11/05/17	4.3	12.1	21.5	5.2	13.1	21.9	1.2	12.2	33.4	51.9	74.1	87.8	-2.7	153.9	589.4	0.0	0.0	0.0	0.6	2.5
12/05/17	7.3	13.6	18.9	8.5	14.5	19.1	0.3	10.8	38.6	73.0	81.5	87.7	-2.3	56.9	311.6	0.0	0.0	0.0	0.9	2.7
13/05/17	8.5	13.8	20.3	9.5	14.6	20.8	-2.9	10.7	33.7	74.5	85.0	91.6	-2.2	89.3	700.4	0.0	0.0	0.0	0.6	2.3
14/05/17	9.8	14.6	20.5	10.6	15.4	20.9	-1.3	9.4	27.5	72.7	85.5	91.8	-1.9	78.0	569.1	0.4	0.4	0.0	1.1	5.9
15/05/17	8.3	13.4	20.6	9.1	14.5	20.9	1.3	13.3	39.8	62.4	81.0	93.2	-2.1	106.6	618.4	0.2	0.5	0.0	1.1	4.0
16/05/17	4.2	11.9	21.3	5.7	13.1	21.6	-2.3	14.7	33.9	52.4	76.0	90.5	-2.3	149.3	573.8	0.0	0.5	0.0	0.9	2.7
17/05/17	3.0	11.9	20.7	4.2	13.1	21.1	3.9	14.9	37.7	58.2	76.3	88.2	-2.7	139.1	555.5	0.0	0.5	0.0	0.9	3.0
18/05/17	7.6	14.8	21.3	8.2	15.7	21.6	0.4	11.2	39.3	67.5	80.6	89.8	-2.3	118.8	599.4	0.0	0.5	0.0	1.3	4.1
19/05/17	12.9	16.3	19.2	13.9	17.0	19.6	0.5	9.2	26.0	83.1	88.0	92.7	-1.9	33.8	524.4	10.8	11.3	0.0	1.1	3.2
20/05/17	15.3	17.8	22.5	16.2	18.3	22.8	-2.0	6.5	16.5	77.0	88.3	94.4	-1.8	109.2	691.5	5.3	16.6	0.0	1.0	3.1
21/05/17	12.6	17.0	22.8	13.2	17.7	23.7	0.2	8.8	17.9	74.0	85.3	94.1	-1.9	109.7	599.4	0.0	16.6	0.0	0.8	2.6
22/05/17	13.6	17.4	21.9	13.8	18.2	22.2	0.4	10.0	30.3	71.5	81.7	88.7	-1.8	72.7	640.9	0.0	16.6	0.0	1.0	3.2
23/05/17	10.0	15.8	22.4	10.8	16.6	22.8	-1.3	10.4	35.4	67.7	82.8	91.2	-2.0	108.1	554.7	0.0	16.6	0.0	1.2	3.8
24/05/17	6.1	14.4	21.9	7.7	15.8	22.4	3.3	17.3	48.4	53.5	73.6	92.7	-2.3	107.9	590.9	0.0	16.6	0.0	2.1	6.7
25/05/17	3.7	10.7	19.9	4.6	11.7	20.4	0.0	12.8	27.7	54.4	74.6	86.4	-2.2	144.1	560.9	0.0	16.6	0.0	0.5	2.3
26/05/17	3.0	10.5	19.3	4.2	11.6	19.8	1.2	13.4	34.5	59.1	77.9	89.5	-2.2	141.3	552.0	0.0	16.6	0.0	0.7	2.3
27/05/17	3.1	11.2	21.0	3.9	12.1	21.1	-2.7	11.6	36.2	63.3	80.5	90.0	-2.2	136.6	533.8	0.0	16.6	0.0	0.6	2.7
28/05/17	5.7	14.7	21.8	6.0	15.8	22.1	1.8	13.6	35.0	64.1	73.7	92.6	-2.3	71.9	567.7	0.0	16.6	0.0	1.9	4.4
29/05/17	-0.6	9.5	18.0	0.4	10.4	18.2	-3.1	10.9	37.0	41.4	61.5	79.1	-2.2	142.0	547.4	0.0	16.6	0.0	2.0	6.0
30/05/17	-0.6	8.6	16.9	1.1	9.9	17.1	-0.6	16.6	55.8	49.0	66.7	83.7	-2.2	128.6	526.3	0.0	16.6	0.0	1.9	5.9
31/05/17	2.7	9.3	15.1	3.9	10.3	15.1	-0.8	13.6	38.1	58.0	71.1	84.0	-2.3	86.4	422.7	0.0	16.6	0.0	1.1	4.2
MONTH	-0.6	13.8	25.6	0.4	14.7	26.2	-4.1	11.6	55.8	40.0	75.8	94.4	-2.7	118.9	710.5	16.6		0.0	1.2	6.7

