

**WAMBO COAL
ENVIRONMENTAL REPORTING
1 JUNE – 30 JUNE 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	29/06/2017	7.38	496	7	
SW02	29/06/2017	7.59	519	5	
SW03	29/06/2017	7.46	484	26	
SW04	29/06/2017				Dry
SW05	29/06/2017				Pool
SW06	29/06/2017				Dry
SW07	29/06/2017				Pool
SW08	29/06/2017				No access
SW14	7/06/2017	7.59	712	38	
SW15	7/06/2017	8.82	7040	36	
SW27	29/06/2017				Dry
SW31	7/06/2017	8.68	6860	230	
SW32a	29/06/2017				Dry
SW38	7/06/2017	8.76	6770	52	
SW39	29/06/2017				Dry
SW40	29/06/2017	7.45	476	7	

Table 2 - WCPL Groundwater Results

Site	Date	pH	EC ($\mu\text{S}/\text{cm}$)	Depth	Comments
P106	6/6/2017				Dry
P109	5/6/2017	6.6	754	5.93	
P114	6/6/2017				Dry
P116	6/6/2017	7.1	1044	6.92	
P202	5/6/2017	7.6	3860	7.96	
P206	5/6/2017	7.8	2020	19.33	
P301	5/6/2017	6.7	5490	15.61	
P315	5/6/2017	6.2	437	8.02	
GW02	5/6/2017	6.6	487	7.70	
GW08	6/6/2017	7.8	187.3	6.56	
GW09	6/6/2017				Dry
GW11	5/6/2017	7.0	558	9.93	
GW12	5/6/2017				Insufficient water
GW13	6/6/2017	6.9	288	5.80	
GW15	6/6/2017	6.7	599	10.90	
GW16	5/6/2017	7.5	851	9.81	
GW17	5/6/2017	7.1	5260	11.69	
GW21	5/6/2017				Dry
GW22	5/6/2017	8.4	6980	35.43	
P1	26/6/2017	6.81	4730	25.54	
P3	26/6/2017				Removed
P11	26/6/2017				No access
P16	26/6/2017	7.36	8080	8.18	
P20	26/6/2017	7.19	9850	7.78	

Table 3 - WCPL HVAS

Site	Date	TSP (UG/m3)
HV01	5/6/2017	36.80
HV01	11/6/2017	16.50
HV01	18/6/2017	22.80
HV01	23/6/2017	32.0
HV01	29/6/2017	15.1
HV02	5/6/2017	39.65.80
HV02	11/6/2017	11.10
HV02	18/6/2017	21.80
HV02	23/6/2017	68.4
HV02	29/6/2017	8.1
HV03	5/6/2017	26
HV03	11/6/2017	23.30
HV03	18/6/2017	26.30
HV03	23/6/2017	17.2
HV03	29/6/2017	5.8
HV04	5/6/2017	19.60
HV04	11/6/2017	47.50
HV04	18/6/2017	50.10
HV04	23/6/2017	17.5
HV04	29/6/2017	11.8

Table 4 - WCPL Depositional Dust Gauges

Site	Date	Ash (g/m ²)	Total Insoluble Matter (g/m ²)	AR/IS Ratio	Comment
D01	14/06/2017	2.60	6.90	37.68	
D03	14/06/2017	1.50	2.30	65.22	
D07	14/06/2017	4.30	5.30	81.13	
D09	14/06/2017	1.30	2.20	59.09	
D11	14/06/2017	1	1.60	62.50	
D12	14/06/2017	2.10	3.20	65.63	
D17	14/06/2017	1.10	1.90	57.89	
D19	14/06/2017	1.90	2.90	65.52	
D20	14/06/2017	0.90	1.40	64.29	
D21	14/06/2017	1.20	1.80	66.67	
D22	14/06/2017	5.80	7.10	81.69	
D23	14/06/2017	0.60	0.90	66.67	
D24	14/06/2017	0.60	0.70	85.71	
D25	14/06/2017	2.10	2.70	77.78	
D26	14/06/2017	0.80	1.10	72.73	

Table 5 - 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 ³)	YTD Average	PM10 24 Hour Result (ug/m ³)	YTD Average	PM10 24 Hour Result (ug/m ³)	YTD Average	PM10 24 Hour Result (ug/m ³)	YTD Average
1/6/2017	8.8	21.02	19.6	19.05	3.79787	15.39	3.35	18.53
2/6/2017	11	20.95	25.4423	19.10	9.8	15.36	12.4	18.49
3/6/2017	17.3	20.93	15.7	19.07	6.8	15.30	11.5	18.45
4/6/2017	9.8	20.86	7.4	19.00	8.4	15.25	16.8	18.44
5/6/2017	15.4	20.82	4.1	18.90	9.7	15.22	7.9	18.37
6/6/2017	11.7	20.76	11.5	18.86	9	15.18	7.5	18.30
7/6/2017	5.7	20.67	3.8	18.76	4.3	15.11	5.2	18.22
8/6/2017	7.6	20.58	5.9	18.68	5.9	15.05	6.7	18.14
9/6/2017	8.2	20.51	7.4	18.61	8.3	15.01	9	18.09
10/6/2017	7.5	20.43	4.7	18.52	7.1	14.96	8.1	18.02
11/6/2017	7.7	20.35	5.5	18.44	9.4	14.93	14.5	18.00
12/6/2017	13.8	20.31	9.4	18.39	11.9	14.91	16.4	17.99
13/6/2017	11.3	20.25	10.3	18.34	10.2	14.88	15.6	17.98
14/6/2017	9.8	20.19	7	18.27	8.9	14.84	14.1	17.95
15/6/2017	16.5	20.17	9.3	18.21	11.1	14.82	17.7	17.95
16/6/2017	17.2	20.15	15.1	18.20	12.4	14.80	15.8	17.94
17/6/2017	16.1	20.13	14.2	18.17	14.7	14.80	17.5	17.94
18/6/2017	13.1	20.08	14	18.15	12.8	14.79	18.6	17.94
19/6/2017	14.6	20.05	14.9	18.13	13.5	14.78	19.9	17.95
20/6/2017	7.2	19.98	6.1	18.06	7.5	14.74	8.2	17.90
21/6/2017	9.7	19.92	18.8	18.06	7.7	14.70	9.5	17.85
22/6/2017	14.2	19.88	19.5	18.07	11.3	14.68	12.3	17.81
23/6/2017	14	19.85	26.1	18.12	9.7	14.65	9	17.76
24/6/2017	13.3	19.81	14	18.09	9.9	14.62	11.9	17.73
25/6/2017	12.3	19.77	18.2	18.09	8.7	14.59	8.7	17.68
26/6/2017	15.2	19.74	27.7	18.15	8.4	14.55	10.4	17.64
27/6/2017	26.1	19.78	29.3	18.21	16.8	14.57	24.3	17.68
28/6/2017	19.4	19.78	16.1	18.20	12.6	14.56	13.3	17.65
29/6/2017	9.4	19.72	6.2	18.13	6.4	14.51	6.8	17.59
30/6/2017	8.5	19.66	5.4	18.06	5.1	14.46	10.3	17.55

Table 6 - WCPL Blast Monitoring Results

Date & Time	ID	BM02 - Kelly		BM05 - Muller		BM07 - Thelander	
		dBL	mm/sec	dBL	mm/sec	dBL	mm/sec
5/06/2017 15:08	M_22WMA_141	96.9	0.14	104.7	1.44	100.5	1.66
5/06/2017 15:16	M_22WMA_143	100	0.13	105.1	0.85	95.9	0.62
13/06/2017 15:15	GM_1GMA0_148	115.9	1.86	103.6	0.03	91	0.04
15/06/2017 15:48	ME_21WMA_142	96.5	0.16	106.5	0.53	98.1	0.27
15/06/2017 16:17	M_27WWA_147	89.2	0.04	109.3	0.42	105.4	0.43
23/06/2017 12:03	ME_21WMA_156	102.9	0.07	106.9	0.26	96.5	0.17
23/06/2017 12:08	M_27WWA_144	105.6	0.07	102.2	0.5	98.3	0.55
30/06/2017 12:16	Montrose B154	95.1	0.01	103.5	0.88	97.8	0.83
30/06/2017 15:07	ME_17WMA_159	97.5	0.22	90.3	0.08	83.3	0.09

Table 7 - 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
1/6/2017	1.9	7.9	17.2	3.2	9.4	17.3	-0.3	17.6	54.7	52.1	72.6	87.4	-2.2	129.5	523.4	0.0	0.0	0.0	1.3	3.5
2/6/2017	0.3	8.6	17.9	1.5	9.9	18.1	-1.9	15.4	40.1	54.2	72.2	86.9	-2.4	122.3	523.4	1.0	1.0	0.0	1.0	3.0
3/6/2017	5.7	13.2	18.2	6.7	14.1	18.2	-0.9	11.8	38.2	61.6	71.7	83.9	-2.2	68.8	573.0	0.0	1.0	0.0	1.3	3.6
4/6/2017	5.7	12.6	19.0	7.8	13.6	19.1	-1.6	13.1	34.6	60.0	74.7	84.5	-2.2	77.1	594.6	0.0	1.0	0.0	0.8	2.1
5/6/2017	1.9	9.0	17.7	3.1	10.1	17.7	-3.1	13.8	38.9	67.5	81.0	89.5	-2.2	108.1	503.3	0.0	1.0	0.0	0.9	3.2
6/6/2017	5.9	11.4	17.5	7.4	12.2	17.7	0.0	9.3	34.1	48.8	66.6	86.7	-2.2	110.4	622.3	0.0	1.0	0.1	2.4	5.8
7/6/2017	9.6	11.8	13.3	10.1	12.4	14.1	3.0	7.6	20.0	59.2	77.3	86.4	-2.2	15.2	182.4	9.0	10.0	0.0	1.5	4.2
8/6/2017	10.8	14.4	17.9	11.2	15.1	18.2	-0.9	8.3	19.3	77.0	84.1	90.7	-2.2	79.9	558.6	0.8	10.8	0.0	2.0	4.7
9/6/2017	12.7	14.4	17.1	13.1	14.9	17.3	0.0	6.7	14.4	76.1	83.6	90.0	-1.9	42.2	485.7	3.4	14.2	0.0	1.8	6.1
10/6/2017	10.9	14.2	17.4	11.9	14.9	18.0	3.1	8.9	16.9	82.8	88.7	92.6	-1.9	48.6	299.2	1.0	15.2	0.1	1.6	4.6
11/6/2017	11.8	14.4	18.0	12.9	15.2	18.4	3.6	9.9	18.3	80.6	87.7	92.1	-2.0	51.3	350.0	0.2	15.4	0.0	0.9	2.6
12/6/2017	9.1	13.3	19.1	9.6	14.1	19.8	-0.2	10.1	28.0	75.0	87.9	94.0	-2.1	101.7	527.7	0.0	15.4	0.0	0.7	2.3
13/6/2017	9.3	14.4	18.6	11.8	15.4	19.0	1.8	12.5	42.3	70.4	81.0	91.5	-2.1	92.4	610.2	0.2	15.6	0.0	2.2	4.5
14/6/2017	12.3	15.0	18.4	13.3	15.6	18.4	-1.6	8.0	19.2	77.0	82.7	87.2	-1.9	67.9	582.0	0.0	15.6	0.0	1.3	2.9
15/6/2017	10.4	14.0	19.1	11.2	14.6	19.6	-1.8	8.1	26.6	74.6	86.5	92.2	-1.9	72.4	560.5	0.0	15.6	0.0	0.6	2.1
16/6/2017	8.9	12.8	18.2	9.7	13.6	18.6	1.2	9.2	24.1	80.5	88.0	93.1	-2.3	59.9	490.6	0.0	15.6	0.0	0.7	2.3
17/6/2017	12.3	14.8	17.3	13.2	15.5	17.7	2.7	8.9	18.0	79.2	84.8	89.7	-1.9	35.8	422.1	0.0	15.6	0.0	1.2	2.8
18/6/2017	12.3	15.0	18.2	13.8	15.8	18.4	0.2	10.3	22.8	65.9	77.9	88.1	-1.9	70.7	611.2	0.0	15.6	0.0	2.4	5.8
19/6/2017	13.2	15.7	19.6	13.9	16.2	19.9	-1.9	5.7	9.9	59.8	68.7	80.0	-1.9	110.8	597.1	0.0	15.6	0.8	2.9	61.8
20/6/2017	7.4	14.7	19.3	8.6	15.4	19.4	-0.9	8.9	30.4	66.8	78.3	86.2	-2.2	100.1	537.7	0.0	15.6	0.0	1.4	3.7
21/6/2017	3.3	10.3	18.2	3.8	11.3	18.5	-1.0	12.7	36.7	66.9	81.9	91.5	-2.3	110.4	514.5	0.0	15.6	0.0	0.7	3.0
22/6/2017	3.3	9.6	18.7	4.0	10.6	19.1	1.9	11.9	34.6	65.4	82.3	90.9	-2.3	101.4	513.3	0.2	15.8	0.0	0.6	1.9
23/6/2017	3.0	10.6	18.1	3.3	11.8	18.8	1.3	14.6	45.9	63.5	77.7	92.2	-2.3	66.2	452.0	0.0	15.8	0.0	1.8	4.6
24/6/2017	5.8	11.4	19.5	6.8	12.6	19.9	-2.0	15.1	51.0	45.8	64.4	81.9	-2.3	110.3	654.6	0.0	15.8	0.0	1.8	5.6
25/6/2017	3.0	11.5	19.8	4.3	12.6	20.1	0.9	14.2	36.4	47.7	66.8	83.2	-2.2	116.2	504.0	0.0	15.8	0.0	1.8	5.9
26/6/2017	0.7	8.7	18.9	2.2	10.0	19.4	-1.8	15.9	38.8	47.4	71.3	86.8	-2.2	127.9	509.2	0.0	15.8	0.0	0.9	3.4
27/6/2017	-0.2	9.8	15.6	0.9	10.6	16.2	1.4	10.8	47.6	64.7	78.0	86.8	-2.1	73.6	626.2	0.0	15.8	0.0	0.5	1.6
28/6/2017	9.9	11.9	13.4	10.4	12.4	14.0	3.0	7.0	19.2	83.6	87.6	91.9	-2.1	15.2	200.8	3.6	19.4	0.0	0.9	4.0
29/6/2017	5.6	10.2	14.2	7.7	11.2	14.6	-0.7	12.5	53.0	88.3	92.1	93.8	-2.4	24.1	239.6	2.6	22.0	0.0	1.1	3.9
30/6/2017	1.0	8.3	16.0	2.7	9.4	16.5	-2.1	13.4	32.4	55.4	75.9	91.3	-3.0	142.4	538.6	0.0	22.0	0.0	0.9	3.6
MONTH	-0.2	12.1	19.8	0.9	13.0	20.1	-3.1	11.1	54.7	45.8	79.1	94.0	-3.0	81.8	654.6	22.0		0.0	1.3	61.8

