

**WAMBO COAL
ENVIRONMENTAL REPORTING
1 APRIL – 30 APRIL 2017**

14 May 2017

Table 1 - WCPL Surface and Mine Water Dam Results

Site	Date	pH	EC ($\mu\text{S}/\text{cm}$)	TSS (mg/L)	Comments
SW01	28 Apr 2017	7.06	552	5	
SW02	28 Apr 2017	7.16	543	5	
SW03	28 Apr 2017	6.99	532	6	
SW04	28 Apr 2017				No flow
SW05	28 Apr 2017				No flow
SW06	28 Apr 2017				No flow
SW07	28 Apr 2017				No flow
SW08	28 Apr 2017				No flow
SW12	28 Apr 2017				No flow
SW14	28 Apr 2017				No flow
SW15	28 Apr 2017				No flow
SW20	28 Apr 2017				No flow
SW27	28 Apr 2017				No flow
SW30	28 Apr 2017				No flow
SW31	28 Apr 2017				No flow
SW32a	28 Apr 2017				No flow
SW38	28 Apr 2017				No flow
SW39	28 Apr 2017				No flow
SW40	28 Apr 2017	6.99	516	5	

Table 2 - WCPL Groundwater Results

Site	Date	pH	EC ($\mu\text{S}/\text{cm}$)	Depth	Comments
P106	19 Apr 2017				Dry
P109	19 Apr 2017	6.6	768	5.89	
P114	19 Apr 2017				Dry
P116	19 Apr 2017	7.2	1008	6.46	
P202	19 Apr 2017	7.6	3930	7.74	
P206	19 Apr 2017	7.8	2100	18.74	
P301	19 Apr 2017	6.6	5760	15.47	
P315	19 Apr 2017	6.2	447	7.76	
GW02	19 Apr 2017	6.6	500	7.46	
GW08	19 Apr 2017	7.3	1849	6.27	
GW09	19 Apr 2017				Dry
GW11	19 Apr 2017	7.0	557	5.67	
GW12	19 Apr 2017				Dry
GW13	19 Apr 2017	7.0	3520	5.82	
GW15	19 Apr 2017	7.0	653	10.90	
GW16	19 Apr 2017	7.5	777	9.68	
GW17	19 Apr 2017	7.0	5350	11.68	
GW21	19 Apr 2017				Dry
GW22	19 Apr 2017	8.4	6840	35.41	
P1	Apr 2017	6.91	1251	25.30	
P3	Apr 2017				Removed
P11	Apr 2017				Dry
P16	Apr 2017	7.17	7590	8.09	
P20	Apr 2017	7.21	9870	7.74	

Table 3 - WCPL HVAS

Site	Date	TSP (UG/m3)
HV01	03 Apr 2017	19.50
HV01	06 Apr 2017	13.20
HV01	12 Apr 2017	17.80
HV01	18 Apr 2017	50.50
HV01	24 Apr 2017	58.30
HV01	30 Apr 2017	43
HV02	06 Apr 2017	8.60
HV02	12 Apr 2017	19.10
HV02	18 Apr 2017	51.60
HV02	24 Apr 2017	89.20
HV02	30 Apr 2017	38.70
HV03	06 Apr 2017	14.50
HV03	12 Apr 2017	23.40
HV03	18 Apr 2017	62.30
HV03	24 Apr 2017	78
HV03	30 Apr 2017	45.10
HV04	07 Apr 2017	61.10
HV04	12 Apr 2017	63.80
HV04	18 Apr 2017	89.60
HV04	24 Apr 2017	86
HV04	30 Apr 2017	47.60

Table 4 - WCPL Depositional Dust Gauges

Site	Date	Ash (g/m ²)	Total Insoluble Matter (g/m ²)	AR/IS Ratio	Comment
D01	13 Apr 2017	8.70	25.10	34.66	
D03	13 Apr 2017	5.10	8.10	62.96	
D07	13 Apr 2017	3.30	5.50	60.00	
D09	13 Apr 2017	1.80	4.30	41.86	
D11	13 Apr 2017	1.80	2.50	72.00	
D12	13 Apr 2017	2.10	3.10	67.74	
D17	13 Apr 2017	2.80	4.20	66.67	
D19	13 Apr 2017	1.40	2.50	56.00	
D20	13 Apr 2017	0.90	1.90	47.37	
D21	13 Apr 2017	0.70	1.50	46.67	
D22	13 Apr 2017	1.60	7.60	21.05	
D23	13 Apr 2017	3.30	5.60	58.93	
D24	13 Apr 2017	1	3	33.33	
D25	13 Apr 2017	1.50	2.10	71.43	
D26	13 Apr 2017	0.90	1.50	60.00	

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
1/04/2017	15.50	24.72	12.40	19.89	13.30	17.26	14.90	20.30
2/04/2017	13.94	24.61	11.54	19.80	12.74	17.21	17.63	20.27
3/04/2017	10.80	24.46	7.60	19.66	7.90	17.11	13.80	20.20
4/04/2017	11.10	24.31	8.40	19.54	8.70	17.02	14.10	20.14
5/04/2017	9.30	24.16	7.00	19.41	8.70	16.93	11.60	20.05
6/04/2017	9.40	24.00	6.70	19.28	8.30	16.84	12.00	19.96
7/04/2017	12.10	23.88	8.80	19.17	12.70	16.80	18.40	19.95
8/04/2017	13.00	23.77	10.40	19.08	12.30	16.75	18.30	19.93
9/04/2017	13.90	23.67	14.00	19.03	8.80	16.67	10.50	19.84
10/04/2017	37.80	23.81	38.30	19.22	37.70	16.88	34.90	19.99
11/04/2017	18.10	23.75	13.90	19.17	16.30	16.88	19.00	19.98
12/04/2017	10.40	23.62	10.70	19.09	9.10	16.80	14.20	19.92
13/04/2017	11.60	23.51	10.80	19.01	11.80	16.75	15.30	19.88
14/04/2017	14.90	23.42	12.00	18.94	12.10	16.71	18.80	19.86
15/04/2017	20.90	23.40	18.80	18.94	16.10	16.70	21.60	19.88
16/04/2017	24.50	23.41	22.80	18.98	19.30	16.72	25.90	19.94
17/04/2017	27.00	23.44	21.40	19.00	23.20	16.79	27.10	20.00
18/04/2017	28.20	23.49	19.80	19.01	21.10	16.83	24.30	20.04
19/04/2017	18.30	23.44	19.30	19.01	15.70	16.82	23.00	20.07
20/04/2017	15.00	23.36	21.00	19.03	10.50	16.76	17.10	20.04
21/04/2017	16.90	23.31	17.60	19.01	12.60	16.72	18.90	20.03
22/04/2017	17.80	23.26	21.50	19.04	10.90	16.67	16.40	20.00
23/04/2017	13.30	23.17	19.60	19.04	10.40	16.61	13.00	19.94
24/04/2017	22.40	23.16	37.80	19.21	23.40	16.67	21.60	19.95
25/04/2017	18.40	23.12	20.10	19.21	13.30	16.64	16.20	19.92
26/04/2017	6.70	22.98	5.50	19.09	4.30	16.54	4.10	19.79
27/04/2017	9.20	22.86	7.30	18.99	6.20	16.45	6.70	19.67
28/04/2017	8.46	22.74	9.60	18.91	9.20	16.39	13.60	19.62
29/04/2017	8.50	22.62	16.70	18.90	9.30	16.33	13.70	19.57
30/04/2017	16.00	22.56	16.60	18.88	14.70	16.31	17.60	19.56

Table 6 - WCPL Blast Monitoring Results

Date & Time	ID	BM02 - Kelly		BM05 - Muller		BM07 - Thelander	
		dBL	mm/sec	dBL	mm/sec	dBL	mm/sec
10/04/2017 11:10	Montrose WMA_127	99.6	0.12	96.4	1.04	105.2	1.44
10/04/2017 11:14	Montrose East WMA_116	109.2	0.12	107.8	2.06	91	0.82
19/04/2017 14:05	M_22WRC_124	89.2	0.2	102.7	0.29	91.7	0.17
26/04/2017 15:04	M_22WRC_133	103.4	0.08	111.5	0.67	105.6	0.67
26/04/2017 15:07	M_22WRC_124	104.9	0.04	112.4	0.24	98.7	0.23
26/04/2017 15:14	ME_17WMA_129	102.4	0.16	110.9	0.78	108	0.54

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
01/04/17	16.9	20.0	25.0	17.4	20.5	25.7	-3.1	7.2	14.6	50.8	67.0	78.9	-1.8	175.0	1053.0	0.0	0.0	0.2	1.6	2.7
02/04/17	16.3	18.4	21.8	16.5	18.8	22.3	-2.1	5.5	14.9	63.4	73.6	84.9	-1.8	102.5	775.9	3.0	3.0	1.1	2.1	3.3
03/04/17	14.9	17.8	22.1	15.2	18.2	22.5	-1.4	4.4	9.8	52.7	70.0	79.0	-1.8	164.6	843.1	0.0	3.0	1.5	2.4	3.3
04/04/17	15.3	17.4	22.6	15.9	17.8	22.8	-10.6	5.8	11.6	60.4	73.2	81.0	-1.8	140.5	870.1	1.8	4.8	0.9	2.1	3.2
05/04/17	12.7	16.3	20.6	14.0	16.7	21.1	-6.2	5.4	17.5	72.5	83.5	89.6	-1.9	105.5	893.3	3.4	8.1	0.1	1.5	3.1
06/04/17	12.3	16.0	21.5	13.2	16.4	22.1	-9.0	5.9	13.1	70.5	86.0	92.1	-1.9	106.3	815.4	2.1	10.2	0.1	1.3	3.1
07/04/17	11.8	16.9	22.9	12.5	17.6	23.3	0.6	8.3	14.7	61.8	80.9	93.7	-1.9	157.5	809.2	0.2	10.4	0.1	1.6	3.5
08/04/17	10.1	17.6	24.6	11.1	18.4	25.3	-1.5	10.1	20.2	51.6	75.0	90.6	-1.9	213.1	778.7	0.0	10.4	0.1	1.2	2.1
09/04/17	11.6	19.3	27.3	12.5	19.9	27.6	-7.6	8.3	21.1	45.5	69.4	89.0	-1.9	210.2	820.0	6.7	17.1	0.1	2.0	3.5
10/04/17	11.0	15.2	18.3	11.5	15.7	18.4	-3.3	6.0	18.8	50.4	57.3	66.5	-1.9	191.8	857.3	0.2	17.3	0.5	2.6	3.9
11/04/17	14.3	19.2	24.4	14.9	19.7	24.6	-2.4	6.3	11.7	48.4	59.6	70.0	-1.8	189.1	859.8	0.0	17.3	0.4	1.7	2.5
12/04/17	17.4	19.5	23.7	17.7	19.9	23.8	-4.2	4.4	7.8	55.0	64.8	75.0	-1.8	156.1	894.4	0.0	17.3	1.0	1.9	2.8
13/04/17	15.6	18.6	23.8	16.4	19.1	24.5	-2.5	6.5	13.6	53.6	72.4	83.1	-1.8	150.3	868.3	0.0	17.3	0.2	1.3	3.0
14/04/17	11.4	17.3	24.4	12.6	18.1	24.9	0.0	9.9	20.9	51.9	73.2	88.6	-1.9	196.5	778.8	0.0	17.3	0.1	1.2	2.2
15/04/17	8.8	17.0	25.4	9.7	17.8	25.6	-1.0	9.9	21.2	49.6	72.5	88.5	-1.9	175.0	721.4	0.0	17.3	0.2	1.5	2.9
16/04/17	14.0	18.8	25.4	14.9	19.4	25.9	-3.0	8.3	20.1	46.0	69.4	87.2	-1.8	183.0	732.7	0.0	17.3	0.1	1.4	2.9
17/04/17	13.1	18.1	24.1	13.8	18.9	24.3	-1.2	10.1	27.4	54.9	69.2	80.9	-1.8	172.4	842.2	0.0	17.3	0.4	1.5	3.0
18/04/17	10.4	17.8	24.8	11.2	18.6	25.1	0.0	9.4	23.5	56.1	74.3	88.4	-1.9	182.2	731.3	0.0	17.3	0.0	1.4	2.7
19/04/17	12.5	18.0	24.0	13.2	18.8	24.7	-0.2	9.7	21.8	62.1	76.6	88.2	-1.9	100.3	777.7	0.0	17.3	0.3	1.3	2.7
20/04/17	11.2	16.9	24.3	12.3	18.0	24.7	1.8	13.1	27.0	49.5	73.6	90.9	-1.9	186.0	750.5	0.0	17.3	0.1	1.6	3.2
21/04/17	9.5	16.8	23.7	10.1	17.7	24.1	2.3	10.2	24.1	56.8	73.2	87.0	-1.9	158.3	744.0	0.0	17.3	0.2	1.3	2.3
22/04/17	11.9	17.2	21.9	12.9	17.8	22.2	-1.9	8.3	19.3	70.1	80.5	87.8	-1.9	62.0	422.7	0.0	17.3	0.1	1.2	2.2
23/04/17	9.0	16.5	25.1	9.9	17.4	25.6	0.1	11.5	24.7	57.4	78.9	91.6	-1.9	152.1	662.6	0.0	17.3	0.1	1.2	2.3
24/04/17	10.9	17.9	24.6	11.8	18.7	25.0	2.3	10.4	30.2	56.6	77.0	90.1	-1.9	172.6	647.2	0.0	17.3	0.0	1.1	2.5
25/04/17	14.9	19.8	27.1	15.7	20.4	27.6	-8.9	6.9	16.0	50.8	77.1	89.3	-1.8	119.0	669.9	6.2	23.5	0.0	2.1	4.0
26/04/17	10.9	17.1	23.4	11.3	17.6	23.8	-8.6	6.2	12.3	50.9	72.0	86.3	-1.9	154.5	719.9	3.7	27.2	1.6	2.6	4.5
27/04/17	10.2	13.1	18.5	10.6	13.5	18.8	-4.9	5.5	16.0	57.2	71.9	80.9	-1.9	141.3	784.5	0.0	27.2	0.0	1.6	2.8
28/04/17	7.6	14.0	20.9	8.7	14.8	21.3	-1.3	9.1	27.9	46.8	66.3	83.0	-2.3	185.4	677.2	0.0	27.2	0.0	1.3	2.6
29/04/17	4.7	13.1	23.1	5.7	13.9	23.2	-0.3	10.1	25.2	49.3	72.2	87.8	-2.3	182.1	674.4	0.0	27.2	0.2	1.7	3.2
30/04/17	7.1	14.1	22.0	8.3	15.1	22.4	0.0	13.0	34.2	61.0	77.4	88.7	-2.3	146.1	778.9	0.0	27.2	0.1	1.3	2.5
MONTH	4.7	17.2	27.3	5.7	17.8	27.6	-10.6	8.2	34.2	45.5	72.9	93.7	-2.3	157.7	1,053.0	30.8		0.0	1.6	4.5

