



MAULES CREEK COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: [Hyperlink to Maules Creek Coal, Environment Protection Licence](#)

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: January 2018

Obtained Date: 15 February 2018

Publication Date: 01 March 2018

Context: This Monthly Monitoring Summary aligns with the applicable Environment Protection Licence (EPL) – Maules Creek Coal Mine issued 21st September 2015 by the NSW Environment Protection Authority (EPA).

Monthly Monitoring Summary

Table 1 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
2 (SD2)	TSS	mg/L	Special Frequency Discharge only	0	No discharge at this location this month.					
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
3 (SD3)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
4 (SD4)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
5 (SD5)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
6 (SD6)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
7 (SD7)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
8 (SD8)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						

EPL ID	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
9 (SD9)	TSS	mg/L	Special Frequency Discharge only	0	No discharge at this location this month.					
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
10 (SD10)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
11 (SD11)	TSS	mg/L	Special Frequency Discharge only	0						
	Conductivity	µs/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						

Table 2 – Surface Water Monitoring – Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
12 (Mine Void)	TSS	mg/L	Every 2 months	0	Next Sample February				
	Conductivity	µs/cm		0					
	Oil & Grease	mg/L		0					
	pH	pH		0					

Table 3 – Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
13 (RB01a)	pH	pH	Quarterly	0					Removed*
	Conductivity	µs/cm							
	TDS	mg/L							
14 (RB02a)	pH	pH	Quarterly	0					Removed*
	Conductivity	µs/cm							
	TDS	mg/L							
15 (BCM01)	pH	pH	Quarterly	0					Bore dry since installation
	Conductivity	µs/cm							
	TDS	mg/L							
16 (BCM03)	pH	pH	Quarterly	0					Bore dry since installation
	Conductivity	µs/cm							
	TDS	mg/L							
17 (REG10a)	pH	pH	Quarterly	0					Bore dry since installation
	Conductivity	µs/cm							
	TDS	mg/L							

* Removed by progress of mining.

Table 4 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	Measured Levels – dB(A) L _{Aeq} 15min Evening	Measured Levels – dB(A) L _{Aeq} 15min Night	Limit L _{Aeq} 15min (dB) Operations Criteria	Measured Levels – dB(A) L _{A1} (1 min) Night	Limit L _{A1} (1 min) (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	29/01/2018	23:15	4.2	NM		35			0	NA
NM1	29/01/2018	23:30	3.7	NM		35			0	NA
NM1	30/01/2018	20:30	0.5		<25	35	NM	45	0	Nil
NM1	30/01/2018	20:45	1.1		<25	35	NM	45	0	Nil
NM2	29/01/2018	21:00	4.5	<30		39			0	NA
NM2	29/01/2018	21:15	4.9	<30		39			0	NA
NM2	30/01/2018	22:30	0.2		33	39	36	45	0	Nil
NM2	30/01/2018	22:45	0.3		32	39	36	45	0	Nil
NM3	29/01/2018	19:30	3.5	IA		35			0	NA
NM3	29/01/2018	19:45	4	IA		35			0	NA
NM3	31/01/2018	0:00	0.6		NM	35	NM	45	0	Nil
NM3	31/01/2018	0:15	0.7		NM	35	NM	45	0	Nil
NM4	29/01/2018	23:59	3.7	NM		NA			0	NA
NM4	30/01/2018	0:15	3	NM		NA			0	Nil
NM4	30/01/2018	21:15	0.7		30	NA	NM	NA	0	Nil
NM4	30/01/2018	21:30	0.4		30	NA	NM	NA	0	Nil
NM5	29/01/2018	22:32	4.6	IA		35			0	NA
NM5	29/01/2018	22:48	4.6	IA		35			0	NA
NM5	30/01/2018	19:45	1		IA	35	IA	45	0	Nil
NM5	30/01/2018	20:01	1		IA	35	IA	45	0	Nil
NM6	29/01/2018	20:15	3	IA		35			0	Nil
NM6	29/01/2018	20:30	3	IA		35			0	Nil
NM6	30/01/2018	23:12	0.6		NM	35	NM	45	0	Nil
NM6	30/01/2018	23:27	0.7		NM	35	NM	45	0	Nil

IA & NM = Inaudible & Not Measurable.

MCC ID = Locations as per the approved Noise Management Plan & EPL 20221.

ND = No data due to high prevailing winds during the attended noise monitoring event.

Italicised text indicates wind speed exceeds the 3.0m/s maximum for noise monitoring.

NA = NM4 is at mine owned land and results have been provided for informational purposes.

NM = Not Measurable. If site noise is noted as NM, <20 dB or <30 dB, this means some noise was audible but could not be quantified.

Table 5 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the twenty-four measurements occurred during which operational activities from MCCP were directly measurable (not “inaudible”, “not measurable” or less than a maximum cut-off value of 30 dB), were within 5 dB of the relevant criterion and where meteorological conditions resulted in criteria applying (in accordance with the project approval). No further assessment has been undertaken.

Table 6 – Blast Monitoring (Blasts – Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations Blasts	Noise	Db (Lin Peak)	All	14	91.86	107.50	120	No
	Vibration	mm/s		14	0.21	0.73	10	No

Note: In accordance with the requirements of EPL 20221 M7.4 blast monitoring results are for monitoring points BM2 and BM3.

Table 7 – Dust Monitoring (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	µg/m ³ month	PM ₁₀	9.2	30	No
19 (HVAS)	6 days	µg/m ³	PM ₁₀	14.3	30	No

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m ² month	1.4	4	No
21 (DDG2/MC2)	Monthly	g/m ² month	2.1	4	No
22 (DDG3/MC3)	Monthly	g/m ² month	3.3	4	No
23 (DDG4/MC4)	Monthly	g/m ² month	1.7	4	No

Figure

Figure 1 – EPL 20221 Monitoring Locations

