



## 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:** May 2018

**Obtained Date:** 14 June 2018

**Publication Date:** 19 June 2018

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 7<sup>th</sup> March 2018 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						
5 (SD5)	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						
9 (SD9)	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 June				
	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
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							
24 (RB05A)	pH	pH	Quarterly	0					Next sample June
	Conductivity	µs/cm							
	TDS	mg/L							

**Table 4 - Noise Monitoring (Attended - Measured)**

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq 15min dB	Limit LAeq 15min (dB) Operations Criteria	MCCP LAeq 1min dB	Limit LA1 (1 min) (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	10/05/2018	00:00	0.5	28	35	34	45	0	Nil
NM2	09/05/2018	23:00	0.4	<20	39	26	45	0	Nil
NM3	09/05/2018	22:02	0.5	IA	35	IA	45	0	Nil
NM4	09/05/2018	23:30	0.4	<20	35	20	45	0	Nil
NM5	10/05/2018	00:30	0.4	29	35	38	45	0	Nil
NM6	09/05/2018	22:28	0.4	IA	35	IA	45	0	Nil

MCC ID = Locations as per the EPL No.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.*

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.

IA = Site noise was inaudible at the monitoring location.

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

Measured MCCP only levels were assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. None of 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	9	91.05	102.8	120	No
	Vibration	mm/s		9	0.20	0.53	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).

**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 <sup>3</sup> month	PM <sub>10</sub>	11.1	30	No
19 (HVAS)	6 days	µg/m <sup>3</sup>	PM <sub>10</sub>	17.8	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 <sup>2</sup> month	1.5	4	No
21 (DDG2/MC2)	Monthly	g/m <sup>2</sup> month	2.2	4	No
22 (DDG3/MC3)	Monthly	g/m <sup>2</sup> month	3.6	4	No
23 (DDG4/MC4)	Monthly	g/m <sup>2</sup> month	1.7	4	No

**Figure 1 - EPL 20221 Monitoring Locations**

