

#### MAULES CREEK COAL MINE – MONTHLY MONITORING SUMMARY

#### **Site Information**

**EPL No:** 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

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: October 2025 Obtained Date: 14<sup>th</sup> November 2025 Publication Date: 14<sup>th</sup> November 2025

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2<sup>nd</sup> August 2022 by the

NSW Environment Protection Authority (EPA).



# **Monthly Monitoring Summary**

## **Ground Water Monitoring**

## **Table 1 - Groundwater Quality Monitoring**

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
15	рН	рН									
	Conductivity	μs/cm	Quarterly								
(BCM01) TDS	TDS	mg/L									
16	рН	рН									
16 (BCM03)	Conductivity	μs/cm	Quarterly	Next sample December 2025							
(BCM03)	TDS	mg/L									
17	рН	рН				Next sample De	cember 2025				
17 (REG10A)	Conductivity	μs/cm	Quarterly								
(KEGIUA)	TDS	mg/L									
2.4	рН	рН									
24	Conductivity	μs/cm	Quarterly								
(RB05A)	TDS	mg/L									



## **Surface Water Monitoring**

### **Table 2 - Surface Water Monitoring - Mine Void**

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L							
12	Conductivity	μs/cm	Every 2	1	Next sample November 2025				
(Mine Void)	Oil & Grease	mg/L	months	1		Next sample N	loverriber 2025		
	pН	pН							

<sup>\*</sup>report amended on 17/04/2024 to include mine void monitoring results

### **Table 3 - 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
	Conductivity	μs/cm								
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
3	Oil & Grease	mg/L	Frequency 1 - within 12 hours							
(SD3)	рН	рН	of discharge							
(303)	Phosphorous	mg/L	from EPL 3 or							
	Reactive Phosphorous	mg/L	36.							
	TSS	mg/L								
	Conductivity	μs/cm		No discharge occurred at these locations in October 2025						
	Nitrate	mg/L								
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L	Special							
36	рН	рН	Frequency 1 - within 12 hours							
(SD12)	Phosphorous	mg/L	of discharge							
	Reactive	mg/L	from EPL 3 or 36							
	Phosphorous									
	TSS	mg/L								
I	Conductivity	μs/cm								



### Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value	
	Conductivity	μs/cm								-	
	Nitrate	mg/L	Special								
20	Nitrogen (total)	mg/L	Frequency 3 -								
38 (Flow Meter	Oil & Grease	mg/L	within 12								
Upstream)	рН	рН	hours of								
Орзассину	Phosphorous	mg/L	discharge from								
	Reactive Phosphorous	mg/L	any discharge location.								
	TSS	mg/L									
	Conductivity	μs/cm									
	Nitrate	mg/L	Special								
	Nitrogen (total)	mg/L	Frequency 3 -								
39	Oil & Grease	mg/L	within 12 hours of discharge from any discharge location.								
(Flow Meter	pН	рН									
downstream)	Phosphorous	mg/L									
	Reactive Phosphorous	mg/L									
	TSS	mg/L	†	No discharge occurred at these locations in October 2025							
	TSS	mg/L									
40	Conductivity	μs/cm	Special Frequency 2 –								
(HWD8)	Oil & Grease	mg/L	prior to discharging from EPL 45								
	рН	рН	and/or 46 or								
	TSS	mg/L	within 12hours of discharge caused by								
41	Conductivity	μs/cm	38.4mm in a 5 Day consecutive period								
(HWD9)	Oil & Grease	mg/L									
	рН	рН									



	TSS	mg/L		
42	Conductivity	μs/cm		
<u> </u>	Oil & Grease	mg/L		
	рН	рН	Special Frequency 2 –	
	TSS	mg/L	prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive	
43	Conductivity	μs/cm		No discharge occurred at these locations in October 2025
(HWD11)	Oil & Grease	mg/L		
	рН	рН		
	TSS	mg/L	period	
44	Conductivity	μs/cm	-	
(WCWD)	Oil & Grease	mg/L		
	рН	рН		



#### **Noise Monitoring**

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq <sub>15min</sub> dB	Limit L <sub>Aeq</sub> <sub>15min</sub> (dB)  Operations Criteria	MCCP LAeq <sub>1min</sub> dB	Limit  L <sub>A1 (1 min)</sub> (dB)  Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	29/10/2025	22:30	0.6	<20	35	<20	45	0.0	No
NM2	29/10/2025	23:30	0.5	<20	39	<25	45	0.0	No
NM3	29/10/2025	23:24	0.4	<25	35	<25	45	0.0	No
NM4	29/10/2025	23:00	0.7	<20	35	<25	45	0.0	No
NM5	29/10/2025	22:00	0.7	<20	35	<20	45	0.0	No
NM6	29/10/2025	23:59	0.8	<20	35	<20	45	0.0	No

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.

N/A in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in the project approval.

#### Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.

#### **Blast Monitoring**

Table 8 – Blast Monitoring (Blasts – Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	All	9	92.88	109.30	120	No
Blasts	Vibration	mm/s	All	9	0.07	0.19	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).



## **Air Quality Monitoring**

Table 9 – PM<sub>10</sub> (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM <sub>10</sub>	9.7	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM <sub>10</sub>	12.3	30	No
19 (HVAS)	5 days	μg/m³	PM <sub>10</sub>	12.4	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	2.3	4	No
21 (DDG2/MC2)	Monthly	g/m² month	2.0	4	No
22 (DDG3/MC3)	Monthly	g/m² month	1.8	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.3	4	No



Figure 1 – EPL 20221 Monitoring Location



# EPL 20221 Monitoring Locations - 06/12/2023

EPL Monitoring Locations

MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333 Author: EGibson

Date created: 18/03/201

Spatial Reference Name: WGS 1984 Web Mercator Auxiliary



Maules Creek Coal