



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: May 2025 Obtained Date: 13th June 2025 Publication Date: 16th June 2025

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd 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								
(BCM01)	Conductivity	μs/cm	Quarterly							
(BCIVIOT)	TDS	mg/L	-							
10	рН	рН								
16 (BCM03)	Conductivity	μs/cm	Quarterly							
(BCIVIUS)	TDS	mg/L		Next Sample June 2025						
17	рН	рН				Next Sample	June 2025			
	Conductivity	μs/cm	Quarterly							
(REG10A)	TDS	mg/L								
24	рН	рН								
24 (PROF A)	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							8
12	Conductivity	μs/cm	Every 2	1	12/05/2025	12/06/2025			1220
(Mine Void)	Oil & Grease	mg/L	months	L	12/05/2025	13/06/2025			<5
	рН	рН							8.13

*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	pН	of discharge							
(503)	Phosphorous	mg/L	from EPL 3 or							
	Reactive	mg/L	36.							
	Phosphorous									
	TSS	mg/L								
	Conductivity	μs/cm		No discharge occurred at these locations in May 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								
	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 Motor	Oil & Grease	mg/L	within 12							
(Flow Meter Upstream)	рН	рН	hours of							
opstream	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	39 Oil & Grease		within 12							
(Flow Meter	рН	рН	hours of discharge from any discharge location.							
downstream)	Phosphorous	mg/L								
	Reactive	mg/L								
	Phosphorous		iocation.			No discharge occu	rred at these loca	tions in May 2025		
	TSS	mg/L						10115 11 1114 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							
41	Conductivity	μs/cm	caused by 38.4mm in a 5 Day							
(HWD9)	Oil & Grease	mg/L	consecutive period							
	рН	рН								



	TSS	mg/L	
42	Conductivity	μs/cm	
(HWD10)	Oil & Grease	mg/L	
	рН	рН	Special Frequency 2 –
	TSS	mg/L	prior to discharging from EPL 45
43	Conductivity	μs/cm	and/or 46 or within 12hours
(HWD11)	Oil & Grease	mg/L	of discharge caused by 38.4mm in a 5
	рН	рН	Day consecutive
	TSS	mg/L	period
44	Conductivity	μs/cm	
(WCWD)	Oil & Grease	mg/L	
	рН	рН	

No discharge occurred at these locations in May 2025



Noise Monitoring

Table 6 - Noise Monitoring (Attended - Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq 15min dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	06/05/2025	22:30	0.2	27	35	32	45	0.0	No
NM2	06/05/2025	23:30	0.5	<20	39	<25	45	0.0	No
NM3	06/05/2025	23:23	0.4	IA	35	IA	45	0.0	No
NM4	06/05/2025	23:00	0.3	<20	35	<20	45	0.0	No
NM5	06/05/2025	22:00	0.2	27	35	30	45	0.0	No
NM6	06/05/2025	23:59	0.5	<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	10	97.69	113.30	120	No
Blasts	Vibration	mm/s	All	10	0.11	0.31	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 – PM₁₀ (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 ₁₀	9.4	30	No
37 (TEOM3)	Continuous	µg/m³ month	PM ₁₀	12.2	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	12.7	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	0.7	4	No	
21 (DDG2/MC2)	Monthly	g/m² month	2.3	4	No	
22 (DDG3/MC3)	Monthly	g/m² month	1.7	4	No	
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No	



Figure 1 – EPL 20221 Monitoring Location



EPL 20221 Monitoring Locations - 06/12/2023

0 EPL Monitoring Locations

MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333 Author: EGibson Date created: 18/03/2025

Sohere

Spatial Reference Name: WGS 1984 Web Mercator Auxiliary



Maules Creek Coal