



## 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:** August 2024

**Obtained Date:** 13<sup>th</sup> September 2024

**Publication Date:** 16<sup>th</sup> September 2024

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 (BCM01)	pH	pH	Quarterly	0	Next Sample September 2024																			
	Conductivity	µs/cm																						
	TDS	mg/L																						
16 (BCM03)	pH	pH	Quarterly	0						Next Sample September 2024														
	Conductivity	µs/cm																						
	TDS	mg/L																						
17 (REG10A)	pH	pH	Quarterly	0											Next Sample September 2024									
	Conductivity	µs/cm																						
	TDS	mg/L																						
24 (RB05A)	pH	pH	Quarterly	0																Next Sample September 2024				
	Conductivity	µs/cm																						
	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
12 (Mine Void)	TSS	mg/L	Every 2 months	1	14/08/2024	13/09/2024	NA	NA	<5
	Conductivity	µs/cm							1310
	Oil & Grease	mg/L							<5
	pH	pH							8.37

**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
3 (SD3)	Conductivity	µs/cm	Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36.							
	Nitrate	mg/L								
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	Phosphorous	mg/L								
	Reactive Phosphorous	mg/L								
	TSS	mg/L								
36 (SD12)	Conductivity	µs/cm	Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36.							
	Nitrate	mg/L								
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	Phosphorous	mg/L								
	Reactive Phosphorous	mg/L								
	TSS	mg/L								
Conductivity	µs/cm									

No discharge occurred from this monitoring location

**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
38 (Flow Meter Upstream)	Conductivity	µs/cm	Special Frequency 3 - within 12 hours of discharge from any discharge location.							
	Nitrate	mg/L								
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	Phosphorous	mg/L								
	Reactive Phosphorous	mg/L								
TSS	mg/L									
39 (Flow Meter downstream)	Conductivity	µs/cm	Special Frequency 3 - within 12 hours of discharge from any discharge location.							
	Nitrate	mg/L								
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	Phosphorous	mg/L								
	Reactive Phosphorous	mg/L								
TSS	mg/L									
40 (HWD8)	TSS	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period							
	Conductivity	µs/cm								
	Oil & Grease	mg/L								
	pH	pH								



ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value							
41 (HWD9)	TSS	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period														
	Conductivity	µs/cm															
	Oil & Grease	mg/L															
	pH	pH															
42 (HWD10)	TSS	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period														
	Conductivity	µs/cm															
	Oil & Grease	mg/L															
	pH	pH															
43 (HWD11)	TSS	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within								No discharge occurred from this monitoring location						
	Conductivity	µs/cm															



ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a 5 Day consecutive period							
	pH	pH								
44 (WCWD)	TSS	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period							No discharge occurred from this monitoring location
	Conductivity	µs/cm								
	Oil & Grease	mg/L								
	pH	pH								
45 (ECWDP)	Oil & Grease	mg/L	Not more than 12 hours after discharge commences							No discharge occurred from this monitoring location
	pH	pH								
	TSS	mg/L								
46 (WCWDP)	Oil & Grease	mg/L	Not more than 12 hours after discharge commences							No discharge occurred from this monitoring location
	pH	pH								
	TSS	mg/L								

## Noise Monitoring

Table 5 – 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	21/08/2024	22:30	0.3	<30	35	32	45	0.0	No
NM2	21/08/2024	23:00	0.6	<25	39	<25	45	0.0	No
NM3	21/08/2024	23:20	0.7	IA	35	IA	45	0.0	No
NM4	21/08/2024	23:47	0.6	IA	35	IA	45	0.0	No
NM5	21/08/2024	22:00	0.3	<25	35	37	45	0.0	No
NM6	21/08/2024	23:25	0.7	IA	35	IA	45	0.0	No

### 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 6 – Blast Monitoring (Blasts – Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations Blasts	Overpressure	Db (Lin Peak)	All	7	95.03	113.3	120	No
	Vibration	mm/s		7	0.25	1.86	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

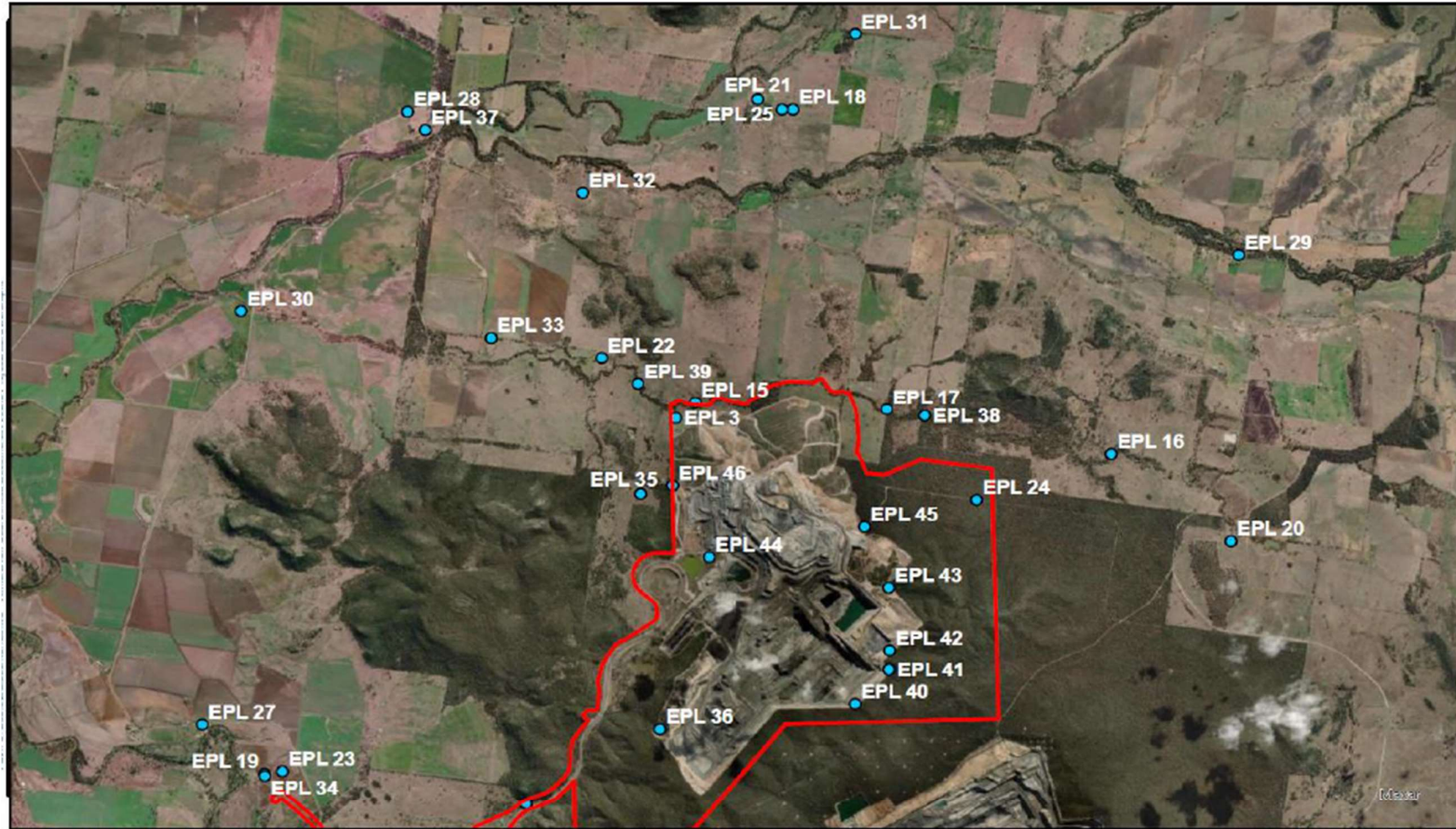
Table 7 – PM<sub>10</sub> (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	µg/m <sup>3</sup> month	PM <sub>10</sub>	10.5	30	No
37 (TEOM3)	Continuous	µg/m <sup>3</sup> month	PM <sub>10</sub>	13.4	30	No
19 (HVAS)	5 days	µg/m <sup>3</sup>	PM <sub>10</sub>	14.2	30	No

Table 8 – 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/m <sup>2</sup> month	2.0	4	No
21 (DDG2/MC2)	Monthly	g/m <sup>2</sup> month	2.0	4	No
22 (DDG3/MC3)	Monthly	g/m <sup>2</sup> month	1.8	4	No
23 (DDG4/MC4)	Monthly	g/m <sup>2</sup> month	1.0	4	No

Figure 1 – EPL 20221 Monitoring Locations



**EPL 20221 Monitoring Locations - 16/05/2024**

- EPL Monitoring Locations
- MCCM Project Boundary MOD 9

Scale: 1:33,944,857,333  
 Author: EGibson  
 Date Printed: 26/03/2021  
 Spatial Reference  
 Name: WGS 1984 Web Mercator Auxiliary  
 Sphere

Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.