

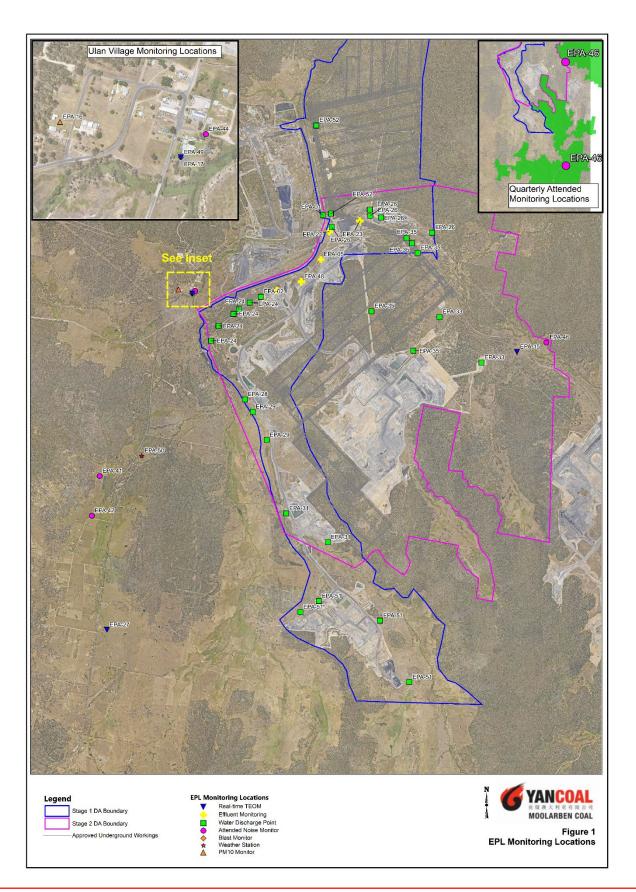


Monthly Environmental Monitoring Report

For the Month Ending 31 July 2025

Name of Operation	Moolarben Coal Complex
Name of License Holder	Moolarben Coal Operations Pty Ltd
Premises	Moolarben Coal Mine
	12 Ulan-Wollar Rd, Ulan NSW 2850
Environmental Protection Licence Number	12932
EPL Link	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicenc e.aspx?DOCID=270376&SYSUID=1&LICID=12932
Reporting Period	01 July 2025 to 31 July 2025
Date last sampled data obtained	21 August 2025
Publication Date	25 August 2025
Version	1
Author	N.Potgieter
Approver	R.Shanks

EPL 12932 MCO Environmental Monitoring Network



Concentration Monitoring Summary

Air Quality Monitoring

EPL	Location	Location Pollutant Unit of EF		EPL Monitoring	No. of Samples	12 Mo	nth Rolling A	verage	Annual	Exceedance
ID			Measure	Frequency	collected and analysed annually	Min Value	Mean Value	Max Value	concentration limit	(Yes/No)
16	PM01	PM10	μg/m³	Every 6 days	35	12.0	12.1	12.2	25	No
N/A	PM02	PM10	μg/m³	N/A	35	12.8	13.0	13.1	25	No
15	теом 6	PM10	μg/m³	Continuous	100%	17.9	18.1	18.3	N/A	N/A
17	TEOM 1	PM10	μg/m³	Continuous	99.5%	15.9	16.1	16.2	25	No
27	TEOM 7	PM10	μg/m³	Continuous	95.3%	8.3	8.4	8.5	25	No
27	TEOM 7	PM2.5	μg/m³	Continuous	95.3%	3.7	3.8	3.9	8	No
N/A	TEOM 4	PM10	μg/m³	N/A	99.5%	13.3	13.4	13.4	25	No

EPL ID	Location	Pollutant	Unit of Measure	EPL Monitoring Frequency	No. of Samples collected and analysed	Min Value	Mean Value	Max Value	24 hr concentration limit	Exceedance (Yes/No)
16	PM01	PM10	μg/m³	Every 6 days	5	2.9	7.7	13.2	50	No
N/A	PM02	PM10	μg/m³	N/A	5	3.5	7.8	10.9	50	No
15	TEOM 6	PM10	μg/m³	Continuous (24 Hr Average)	100%	4.6	15.4	36.7	N/A	N/A
17	TEOM 1	PM10	μg/m³	Continuous (24 Hr Average)	100%	4.4	11.9	21.4	50	No
27	TEOM 7	PM10	μg/m³	Continuous (24 Hr Average)	100%	2.4	5.3	12.2	50	No
27	TEOM 7	PM2.5	μg/m³	Continuous (24 Hr Average)	100%	1.2	2.9	4.6	25	No
N/A	TEOM 4	PM10	μg/m³	N/A (24 Hr Average)	100%	4.5	8.2	15.8	50	No

Surface Water Quality Monitoring

EPL ID	Location	Pollutant	Unit of	No. of Samples collected and	Date Sampled	Results
			Measure	analysed		
		Conductivity	μS/cm	1	09/07/2025	781
N/A	SW01	рН	рН	1	09/07/2025	8.2
		Total Suspended Solids	mg/L	1	09/07/2025	<5
		Conductivity	μS/cm	1	09/07/2025	785
N/A	SW02	рН	рН	1	09/07/2025	8.2
		Total Suspended Solids	mg/L	1	09/07/2025	<5
		Conductivity	μS/cm	0	09/07/2025	*
N/A	SW04	рН	рН	0	09/07/2025	*
		Total Suspended Solids	mg/L	0	09/07/2025	*
		Conductivity	μS/cm	1	09/07/2025	633
N/A	SW05	рН	рН	1	09/07/2025	7.3
		Total Suspended Solids	mg/L	1	09/07/2025	11
		Conductivity	μS/cm	0	09/07/2025	*
N/A	SW07	рН	рН	0	09/07/2025	*
		Total Suspended Solids	mg/L	0	09/07/2025	*
		Conductivity	μS/cm	1	09/07/2025	3257
N/A	SW08	рН	рН	1	09/07/2025	6.5
		Total Suspended Solids	mg/L	1	09/07/2025	<5
		Conductivity	μS/cm	1	09/07/2025	2878
N/A	SW09	рН	pН	1	09/07/2025	6.7
		Total Suspended Solids	mg/L	1	09/07/2025	28
		Conductivity	μS/cm	1	09/07/2025	452
N/A	SW12	рН	pН	1	09/07/2025	7.1
		Total Suspended Solids	mg/L	1	09/07/2025	<5
		Conductivity	μS/cm	0	09/07/2025	*
N/A	SW15	рН	рН	0	09/07/2025	*
		Total Suspended Solids	mg/L	0	09/07/2025	*
		Conductivity	μS/cm	0	09/07/2025	*
N/A	SW16	рН	рН	0	09/07/2025	*
		Total Suspended Solids	mg/L	0	09/07/2025	*

MONTHLY ENVIRONMENTAL MONITORING REPORT

For the Month Ending 31 July 2025

EPL ID	Location	Pollutant	Unit of	No. of Samples collected and	Date Sampled	Results
			Measure	analysed		
		Conductivity	μS/cm	0	09/07/2025	*
N/A	SW17	рН	рН	0	09/07/2025	*
		Total Suspended Solids	mg/L	0	09/07/2025	*
		Conductivity	μS/cm	0	09/07/2025	*
N/A	SW18	рН	рН	0	09/07/2025	*
		Total Suspended Solids	mg/L	0	09/07/2025	*
		Conductivity	μS/cm	1	09/07/2025	774
N/A	SW22	рН	рН	1	09/07/2025	8.2
		Total Suspended Solids	mg/L	1	09/07/2025	<5
		Conductivity	μS/cm	0	09/07/2025	*
N/A	SW23	рН	рН	0	09/07/2025	*
		Total Suspended Solids	mg/L	0	09/07/2025	*
		Conductivity	μS/cm	0	09/07/2025	*
N/A	SW24	SW24 pH pH		0	09/07/2025	*
		Total Suspended Solids	mg/L	0	09/07/2025	*

^{*} No flow

Blasting

			Unit of		No. of Blasts during		Results			Exceedance
	Location	Pollutant	Measure	Frequency	the reporting period	Min Value	Mean Value	Max Value	Limits dBL	(Yes/No)
40	49 BM1 Ulan School	Blast Overpressure	dBL	Every Blast	_ 20 _	84.5	96.1	111.6	115 (95% of Blasts) 120 (100% of Blasts)	No
49		Ground Vibration	mm/s	Every Blast		0.08	0.22	0.84	5mm/s (95% of Blasts) 10mm/s (100% of Blasts)	No
N/A	BM5 Ridge	Blast Overpressure	dBL	Every Blast	20	84.1	96.3	105.1	115 (95% of Blasts) 120 (100% of Blasts)	No
IN/A	Rd	Ground Vibration	mm/s	Every Blast		0.05	0.18	0.43	5mm/s (95% of Blasts) 10mm/s (100% of Blasts)	No
N/A	BM8 N/A Moolarben Rd	Blast Overpressure	dBL	Every Blast	20	79.4	94.8	108.1	115 (95% of Blasts) 120 (100% of Blasts)	No
13/7		Ground Vibration	mm/s	Every Blast		0.02	0.14	0.35	5mm/s (95% of Blasts) 10mm/s (100% of Blasts)	No

Noise

EPL ID	Location	Site ID	Monitoring Type	Frequency	Measured Level ^{3,4,5,6} LAeq dB (15min)	Measured Level ^{3,4,5,6} LA1,1dB (1min)	Noise Criteria ¹	Monitoring Completed during the period	Exceedance (Yes/No)¹
44	Ulan Public School	NA1	Compliance - Attended	Monthly	IA	-	Daytime (07:00 – 18:00) LAeq, 15minute: 35 dB	Yes	N/A²
N/A	Cope Road (Receiver 258)	NA11	Management - Attended	Quarterly	-	-	-	-	-
N/A	Lagoons Road	NA2	Validation - Attended	Annually	-	-	-	-	-
42	Winchester Crescent	NA12	Compliance/Validation - Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq,15minute: 35 dB LA1,1minute: 45 dB	Yes	No
N/A	Upper Ridge Road (Receiver 176)	NA3	Validation - Attended	Annually	-	-	-	-	-
41	Lower Ridge Road	NA6	Compliance -Attended	Monthly	IA	IA	Night time (22:00 – 07:00) LAeq,15minute: 37 dB LA1, 1minute: 45 dB	Yes	No
N/A	Moolarben Road (Receiver 28)	NA10	Validation - Attended	Annually	-	-	-	-	-
46	Goulburn River National Park	GRNP	Compliance -Attended	Annually	39	-	All periods LAeq, 15minute: 50 dB	Yes	No
46	Munghorn Gap Nature Reserve	MGNR	Compliance -Attended	Annually	IA	-	All periods LAeq, 15minute: 50 dB	Yes	No

- 1. Noise limits are adjusted by +5 dB during 'very noise-enhancing meteorological conditions' in accordance with the NPfl.
- 2. Ulan School was in recess and not in use, therefore noise limits were not applicable in accordance with the consents.
- 3. Site-only L_{Aeq,15minute}, includes modifying factor penalties, if applicable
- 4. Site-only LA1,1minute based on measured site-only LAmax
- 5. Where site-only noise levels are very low or are masked by other sources and are at least 5 dB lower than relevant limits, then a maximum estimate maybe be provided such as "<20 dB".
- 6. IA is Inaudible. When site only noise is noted as IA, there was no noise from the source of interest audible at the monitoring location.

Effluent Discharge Points

EPL ID	Pollutant	Unit of Measure	No. of samples	No. of Samples	Date Sampled	Result
			required by Licence	collected and analysed		
	BOD	mg/L	Quarterly		*	
	Nitrogen (total)	mg/L	Quarterly		*	
5	Oil and Grease	mg/L	Quarterly		*	
5	рН	рН	Quarterly		*	
	Phosphorus (total)	mg/L	Quarterly		*	
	Total Suspended Solids	mg/L	Quarterly		*	
	BOD	mg/L	Quarterly		*	
	Nitrogen (total)	mg/L	Quarterly		*	
22	Oil and Grease	mg/L	Quarterly		*	
22	рН	рН	Quarterly		*	
	Phosphorus (total)	mg/L	Quarterly		*	
	Total Suspended Solids	mg/L	Quarterly		*	
	BOD	mg/L	Quarterly		*	
	Nitrogen (total)	mg/L	Quarterly		*	
23	Oil and Grease	mg/L	Quarterly		*	
25	рН	рН	Quarterly		*	
	Phosphorus (total)	mg/L	Quarterly		*	
	Total Suspended Solids	mg/L	Quarterly		*	
	BOD	mg/L	Quarterly		*	
	Nitrogen (total)	mg/L	Quarterly		*	
40	Oil and Grease	mg/L	Quarterly		*	
48	рН	рН	Quarterly		*	
	Phosphorus (total)	mg/L	Quarterly		*	
	Total Suspended Solids	mg/L	Quarterly		*	

^{*}Not sampled in July, next sample in August 2025.

Discharge Points

EPL ID	Pollutant	Unit of Measure	No. of samples required by Licence	No. of Samples collected and analysed	Min Value	Mean Value	Max Value	100%ile concentration limit	Exceedance (Yes/No)
	Conductivity	μS/cm	Continuous during discharge	Continuous during discharge	77.0	159.1	242.0	619	No
	Oil and Grease	mg/L	Weekly during discharge	5	<5	<5	<5	10	No
1	рН	рН	Continuous during discharge	Continuous during discharge	6.9	7.2	7.5	6.5-8.5	No
1	Total Suspended Solids	mg/L	Weekly during discharge	5	<1	<1	<1	50	No
	Turbidity	NTU	Continuous during discharge	Continuous during discharge	0.0	0.0	0.0	25	No
	Discharge Volume	Megalitres per day	Continuous during discharge	Continuous 0.0 during discharge		6.3	9.6	20 1	No
	Conductivity	μS/cm	Continuous during discharge					619	NA
	Oil and Grease	mg/L	Daily during discharge					10	NA
2	рН	рН	Continuous during discharge	No licensed discharges during the period			6.5-8.5	NA	
2	Total Suspended Solids	mg/L	Daily during discharge	No licerised di	ischarges ut	50	NA		
	Turbidity	NTU	Continuous during discharge			25	NA		
	Discharge Volume	Megalitres per day	Continuous during discharge					NA	NA
24	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed di	ischarges dı	uring the pe	riod	50	NA
	Turbidity	NTU	Daily during discharge					25	NA
26	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed di	ischarges dı	uring the pe	riod	50	NA
	Turbidity	NTU	Daily during discharge					25	NA
28	Conductivity	μS/cm	Continuous during discharge					619	NA
	Oil and Grease	mg/L	Daily during discharge					10	NA
	рН	рН	Continuous during discharge	No licensed discharges during the period			6.5-8.5	NA	
	Total Suspended Solids	mg/L	Daily during discharge				50	NA	
	Turbidity	NTU	Continuous during discharge					25	NA

EPL ID	Pollutant	Unit of Measure	No. of samples required by	No. of Samples	Min	Mean	Max	100%ile	Exceedance
			Licence	collected and analysed	Value	Value	Value	concentration limit	(Yes/No)
	Discharge Volume	Kilolitres per day	Continuous during discharge					NA	NA
29	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed d	ischarges d	riod	50	NA	
	Turbidity	NTU	Daily during discharge				25	NA	
31	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed d	No licensed discharges during the period			50	NA
	Turbidity	NTU	Daily during discharge					25	NA
35	рН	рН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed d	ischarges d	uring the pe	riod	50	NA
	Turbidity	NTU	Daily during discharge					25	NA
51	рН	pН	Daily during discharge					6.5-8.5	NA
	Total Suspended Solids	mg/L	Daily during discharge	No licensed discharges during the period			riod	50	NA
	Turbidity	NTU	Daily during discharge				25	NA	

¹ Only applies when mining operations at the premises include that undertaken in the areas "UG4".