



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: March 2025

Obtained Date: 15th April 2025

Publication Date: 24th April 2025

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	06/03/2025	/04/2025	-	-	-	
11	PM ₁₀ Kendo	µg/m ³	Every 6 days	6	01/03/2025 07/03/2025 13/03/2025 19/03/2025 25/03/2025 31/03/2025	15/04/2025 (Last sampled received)	5.6	20.90	8.95	68.20
12	PM ₁₀ Olive View	µg/m ³	Every 6 days	6	01/03/2025 07/03/2025 13/03/2025 19/03/2025 25/03/2025 31/03/2025	15/04/2025 (Last sampled received)	5.50	18.83	19.75	32.30
6	Conductivity	µs/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L					-	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-
	Total Suspended Solids	mg/L					-	-	-	-
	pH	pH					-	-	-	-
7	Conductivity	µs/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L					-	-	-	-



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	Total Organic Carbon	mg/L					-	-	-	-
	Total Suspended Solids	mg/L					-	-	-	-
	pH	pH					-	-	-	8.56

Table 2 – Groundwater Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly (P1)	1	06/03/2025	13/03/2025	-	-	-	0.23
	Bicarbonate	mg/L					-	-	-	1360
	Calcium	mg/L					-	-	-	54
	Chloride	mg/L					-	-	-	2180
	Conductivity	µs/cm					-	-	-	10300
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	189
	Nitrate	mg/L					-	-	-	0.74
	Potassium	mg/L					-	-	-	40
	Sodium	mg/L					-	-	-	2080
	Standing Water Level	m					-	-	-	6.87
	Sulphate	mg/L					-	-	-	1310
	pH	pH					-	-	-	7.86
9	Ammonia	mg/L	Quarterly (P2)	1	06/03/2025	13/03/2025	-	-	-	1.10
	Bicarbonate	mg/L					-	-	-	975
	Calcium	mg/L					-	-	-	263



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	Chloride	mg/L					-	-	-	1060
	Conductivity	µs/cm					-	-	-	5870
	Lead	mg/l					-	-	-	0.001
	Magnesium	mg/L					-	-	-	228
	Nitrate	mg/L					-	-	-	0.58
	Potassium	mg/L					-	-	-	125
	Sodium	mg/L					-	-	-	652
	Standing Water Level	M					-	-	-	2.11
	Sulphate	mg/L					-	-	-	627
	pH	pH					-	-	-	7.09
10	Ammonia	mg/L	Quarterly (P3)	1	06/03/2025	13/03/2025	-	-	-	0.25
	Bicarbonate	mg/L					-	-	-	776
	Calcium	mg/L					-	-	-	210
	Chloride	mg/L					-	-	-	1320
	Conductivity	µs/cm					-	-	-	5960
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	220
	Nitrate	mg/L					-	-	-	0.04
	Potassium	mg/L					-	-	-	74
	Sodium	mg/L					-	-	-	666
	Standing Water Level	M					-	-	-	1.64
	Sulphate	mg/L					-	-	-	270
	pH	pH					-	-	-	7.10

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Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period	Measured levels – CHPP – dB(A)		Limit(s)- dB(A)	Wind speed (m/s)	Observations	(Potential) Non-compliance /breach
			L _{A1} , 1 minute	L _{Aeq} , 15 minute				
N1	24/03/2025	15 mins day	-	30	35	1.5	Dozer operations, Birds 36-51 Machinery 36-41	No
		15 mins evening	-	35	35	1.4	Dozer operations 30, General site activity 25-31, Insects 40-43, Animals 53-59	
		15 mins night	-	30	35	1.2	Dozer operations 30-39, General site activity 28-31, Traffic 30-38, Animals 42-56	
		1 min night	39	-	45			

Notes:

dB(A): The overall level of a sound is usually expressed in terms of dBA, which is measured using a sound level meter with an “A-weighting” filter. This is an electronic filter having a frequency response corresponding approximately to that of human hearing.

LAeq, 15 minute: The A-weighted equivalent noise level (basically the average noise level). It is defined as the steady sound level that contains the same amount of acoustical energy as the corresponding time-varying sound, in this instance over a period of 15 minutes.

LA1, 1 minute: The noise level exceeded for 1% of the 15 minute interval.

I/A: When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location.

Not Measurable (NM): indicates that some site noise was audible, but indeterminate due to one of the following reasons:

- site noise levels were insignificant and unlikely, in many cases, to be even noticed; or
- site noise levels were masked by another relatively loud noise source, but were estimated to be less than LAeq 30 dB, which is insignificant in terms of any applicable criterion.

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WHITEHAVEN COAL

Datum MGA2020 Zone 56 Author O.Hulbert

Image Nov-22 Date Jan-23 Size/Scale 1:13000

Figure 1
Gunnedah CHPP EPL3637
Monitoring Locations

0 250 500
Meters

● CHPP_EPL_Sites_Feb23