



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: December 2025

Obtained Date: 15th January 2026

Publication Date: 22nd January 2026

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	08/12/2025	12/01/2026	-	-	-	1.2
11	PM₁₀ Kendo	µg/m ³	Every 6 days	6*	02/12/2025 04/12/2025* 08/12/2025 14/12/2025 20/12/2025 26/12/2025	15/01/2026 (Last sampled received)	3.90	11.50	9.30	24.50
12	PM₁₀ Olive View	µg/m ³	Every 6 days	6*	02/12/2025 04/12/2025* 08/12/2025 14/12/2025 20/12/2025 26/12/2025	15/01/2026 (Last sampled received)	7.50	17.62	11.85	38.20
6	Conductivity (Field)	µs/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L					-	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-
	Total Suspended Solids	mg/L					-	-	-	-
	pH (Field)	pH					-	-	-	-
7	Conductivity (Field)	µs/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L					-	-	-	-



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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
	Total Organic Carbon	mg/L	(Feb, May, Aug, Nov)				-	-	-	-
	Total Suspended Solids	mg/L					-	-	-	-
	pH (Field)	pH					-	-	-	-

*Only 4 HVAS runs for November due to storm power outage, December to contain make up run (6 runs)

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) (Mar, Jun, Sep, Dec)	1	08/12/2025	16/12/2025	-	-	-	0.02
	Bicarbonate	mg/L					-	-	-	1320
	Calcium	mg/L					-	-	-	51
	Chloride	mg/L					-	-	-	1990
	Conductivity	µs/cm					-	-	-	10540
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	183
	Nitrate	mg/L					-	-	-	1.09
	Potassium	mg/L					-	-	-	26
	Sodium	mg/L					-	-	-	2090
	Standing Water Level	m					-	-	-	6.07
	Sulphate	mg/L					-	-	-	1360
	pH	pH					-	-	-	7.83
9	Ammonia	mg/L	Quarterly (P2)	1	08/12/2025	16/12/2025	-	-	-	2.18
	Bicarbonate	mg/L					-	-	-	967
	Calcium	mg/L					-	-	-	229



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10	Chloride	mg/L	(Mar, Jun, Sep, Dec)				-	-	-	1200
	Conductivity	µs/cm					-	-	-	6310
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	227
	Nitrate	mg/L					-	-	-	0.20
	Potassium	mg/L					-	-	-	115
	Sodium	mg/L					-	-	-	688
	Standing Water Level	M					-	-	-	1.76
	Sulphate	mg/L					-	-	-	782
	pH	pH					-	-	-	7.11
10	Ammonia	mg/L	Quarterly (P3) (Mar, Jun, Sep, Dec)	1	08/12/2025	16/12/2025	-	-	-	1.87
	Bicarbonate	mg/L					-	-	-	770
	Calcium	mg/L					-	-	-	199
	Chloride	mg/L					-	-	-	1410
	Conductivity	µs/cm					-	-	-	6250
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	218
	Nitrate	mg/L					-	-	-	2.19
	Potassium	mg/L					-	-	-	61
	Sodium	mg/L					-	-	-	686
	Standing Water Level	M					-	-	-	1.08
	Sulphate	mg/L					-	-	-	247
	pH	pH					-	-	-	7.18



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Table 3 – Monitoring (Quarterly Noise – Limits Apply)

(Mar, Jun, Sep, Dec)

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	03/12/2025	15 mins day	-	N/M	35	2.1 m/s SE	Birds 50-57, Traffic 30-38 Aircraft 40	No
		15 mins evening	-	25	35	1.0 m/s SE	Dozer operation 25-28, Traffic 37-43 Insects 30-33, Aircraft 53	
		15 mins night	-	<25	35	0.4 m/s S	General site activity 20-25, Dozer operations 25, Insects 30-35 Traffic 32-47, Birds 40-44, Aircraft 45	
		1 min night	25	-	45			

Notes:

dB(A): The overall level of a sound is usually expressed in terms of dB(A), 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.

L_{Aeq}, 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.

L_{A1}, 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 L_{Aeq} 30 dB, which is insignificant in terms of any applicable criterion.



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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