



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 2024

Obtained Date: 16th April 2024

Publication Date: 17th April 2024

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	19/03/2024	03/04/2024	-	-	-	1.1
11	PM ₁₀ Kendo	µg/m ³	Every 6 days	5	06/03/2024 12/03/2024 18/03/2024 24/03/2024 30/03/2024	16/04/2024 (Last sampled received)	4.6	9.58	9.2	14.4
12	PM ₁₀ Olive View	µg/m ³	Every 6 days	5	06/03/2024 12/03/2024 18/03/2024 24/03/2024 30/03/2024	16/04/2024 (Last sampled received)	6.5	10.54	10.2	14.8
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					-	-	-	-
	Total Organic Carbon	mg/L					-	-	-	-



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	Total Suspended Solids	mg/L					-	-	-	-
	pH	pH					-	-	-	-

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	07/03/2024	15/03/2024	-	-	-	0.04
	Bicarbonate	mg/L					-	-	-	1310
	Calcium	mg/L					-	-	-	83
	Chloride	mg/L					-	-	-	1840
	Conductivity	µs/cm					-	-	-	10200
	Lead	mg/L					-	-	-	0.002
	Magnesium	mg/L					-	-	-	190
	Nitrate	mg/L					-	-	-	0.13
	Potassium	mg/L					-	-	-	30
	Sodium	mg/L					-	-	-	2040
	Standing Water Level	m					-	-	-	6.31
	Sulphate	mg/L					-	-	-	1190
pH	pH	-	-	-	7.80					
9	Ammonia	mg/L	Quarterly (P2)	1	07/03/2024	15/03/2024	-	-	-	1.14
	Bicarbonate	mg/L					-	-	-	922
	Calcium	mg/L					-	-	-	286
	Chloride	mg/L					-	-	-	1020



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	Conductivity	µs/cm					-	-	-	6280
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	238
	Nitrate	mg/L					-	-	-	0.15
	Potassium	mg/L					-	-	-	104
	Sodium	mg/L					-	-	-	712
	Standing Water Level	M					-	-	-	1.98
	Sulphate	mg/L					-	-	-	736
	pH	pH					-	-	-	6.27
10	Ammonia	mg/L	Quarterly (P3)	1	07/03/2024	15/03/2024	-	-	-	4.50
	Bicarbonate	mg/L					-	-	-	808
	Calcium	mg/L					-	-	-	239
	Chloride	mg/L					-	-	-	1260
	Conductivity	µs/cm					-	-	-	6160
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	216
	Nitrate	mg/L					-	-	-	1.93
	Potassium	mg/L					-	-	-	65
	Sodium	mg/L					-	-	-	683
	Standing Water Level	M					-	-	-	1.32
	Sulphate	mg/L					-	-	-	270
	pH	pH					-	-	-	7.28



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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	14/03/2024	15 mins day	-	I/A	35	1.8	Animals 65-70, Traffic 40-46, Aircraft 58, Birds 45-56	No
	14/03/2024	15 mins evening	-	30	35	1.1	Site Noise: Dozer, Insects 40-42, Dogs 48-57, Traffic 30-35	
		15 mins night	-	28	35	Calm	Site Noise: Dozer, Traffic 34-44, Dogs 57-60	
		1 min night	38	-	45	Calm		

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.

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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	<p>Figure 1 Gunnedah CHPP EPL3637 Monitoring Locations</p>	<p>0 250 500 Meters</p>
<p>Datum MGA2020 Zone 56 Author O.Hulbert Image Nov-22 Date Jan-23 Size/Scale 1:13000</p>		<p>● CHPP_EPL_Sites_Feb23</p>