



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: February 2023

Obtained Date: 17th March 2023

Original Publication Date: 17th March 2023

Date of re-publishing with correction log: 9th May 2023

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	16/02/2023	17/03/2023	-	-	-	0.5
11	PM ₁₀ Kendo	µg/m ³	Every 6 days	5	4/02/2023 10/02/2023 16/02/2023 22/02/2023 28/02/2023	15/03/2023 (Last sampled received)	7.3	20.43	11.1	62.4
12	PM ₁₀ Olive View	µg/m ³	Every 6 days	5	4/02/2023 10/02/2023 16/02/2023 22/02/2023 28/02/2023	15/03/2023 (Last sampled received)	7.2	11.5	8.8	19.3
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				-	-	-	1,060



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	Oil and Grease	mg/L		1	9/02/2023	16/02/2023	-	-	-	<5
	Total Organic Carbon	mg/L					-	-	-	6
	Total Suspended Solids	mg/L					-	-	-	39
	pH	pH					-	-	-	8.35

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	28/02/2023	07/03/2023	-	-	-	0.13
	Bicarbonate	mg/L					-	-	-	1,300
	Calcium	mg/L					-	-	-	61
	Chloride	mg/L					-	-	-	2,160
	Conductivity	µs/cm					-	-	-	10,300
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	187
	Nitrate	mg/L					-	-	-	0.14
	Potassium	mg/L					-	-	-	25
	Sodium	mg/L					-	-	-	2,150
	Standing Water Level	m					-	-	-	5.41
	Sulphate	mg/L					-	-	-	1,420
pH	pH	-	-	-	7.3					
9	Ammonia	mg/L	Quarterly (P2)				-	-	-	3.05
	Bicarbonate	mg/L					-	-	-	916



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	Calcium	mg/L		1	28/02/2023	07/03/2023	-	-	-	270
	Chloride	mg/L					-	-	-	1,120
	Conductivity	µs/cm					-	-	-	6,000
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	224
	Nitrate	mg/L					-	-	-	<0.01
	Potassium	mg/L					-	-	-	119
	Sodium	mg/L					-	-	-	698
	Standing Water Level	m					-	-	-	1.86
	Sulphate	mg/L					-	-	-	610
	pH	pH					-	-	-	7.1
10	Ammonia	mg/L	Quarterly (P3)	1	28/02/2023	07/03/2023	-	-	-	0.02
	Bicarbonate	mg/L					-	-	-	746
	Calcium	mg/L					-	-	-	231
	Chloride	mg/L					-	-	-	1,380
	Conductivity	µs/cm					-	-	-	5,880
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	218
	Nitrate	mg/L					-	-	-	10.3
	Potassium	mg/L					-	-	-	61
	Sodium	mg/L					-	-	-	724
	Standing Water Level	m					-	-	-	1.1
	Sulphate	mg/L					-	-	-	273
	pH	pH					-	-	-	7



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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
			LA1, 1 minute	LAeq, 15 minute				
N1	-	15 mins day	-	-	-	-	-	-
		15 mins evening	-	-	-	-	-	
		15 mins night	-	-	-	-	-	
		1 min night	-	-	-	-	-	

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	<p align="center">Figure 1 Gunnedah CHPP EPL3637 Monitoring Locations</p>	<p align="center">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>

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CORRECTION LOG – FEBRUARY 2023

Month of EPL Monitoring	Sample point	Date of original publishing	Date of Correction	Date of Re-publishing	Correction/s made:
February 2023	11	17/03/2023	9/05/2023	9/05/2023	<ul style="list-style-type: none"> • Changed No. of samples for month. Original data: 4, corrected data: 5 • Added sample date 04/02/2023 • Changed min value. Original data:8.3, corrected Data: 7.3 • Changed mean value. Original data:23.7, corrected Data: 20.43 • Changed median value. Original data: 12.05, corrected Data: 11.1
February 2023	12	17/03/2023	9/05/2023	9/05/2023	<ul style="list-style-type: none"> • Changed No. of samples for month. Original data: 4, corrected data: 5 • Added sample date 04/02/2023 • Changed mean value. Original data: 12.2, corrected Data: 11.5 • Changed median value. Original data: 11.15, corrected Data: 8.8