



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: November 2022

Obtained Date: 16th December 2022

Publication Date: 20th December 2022

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	17/11/2022	12/12/2022				
11	PM ₁₀ Kendo	µg/m ³	Every 6 days	5	6/11/2022 12/11/2022 18/11/2022 24/11/2022 30/11/2022	16/12/2022 (Last sampled received)	4.5	6.4	7.1	7.9
12	PM ₁₀ Olive View	µg/m ³	Every 6 days	5	6/11/2022 12/11/2022 18/11/2022 24/11/2022 30/11/2022	16/12/2022 (Last sampled received)	0.2	5.5	7.8	8.1
6	Conductivity	µs/cm	Each overflow event	2	9/11/2022 14/11/2022	17/11/2022 22/11/2022	817	841	841	865
	Oil and Grease	mg/L					<5	<5	<5	<5
	Total Organic Carbon	mg/L					10	11	11	12
	Total Suspended Solids	mg/L					47	72	72	97
	pH	pH					6.94	7.16	7.16	7.37
7	Conductivity	µs/cm	Quarterly	1	17/11/2022	25/11/2022				1130
	Oil and Grease	mg/L								<5
	Total Organic Carbon	mg/L								10



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	Total Suspended Solids	mg/L								51
	pH	pH								7.2

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	1	30/11/2022	8/12/2022	-	-	-	0.14
	Bicarbonate	mg/L					-	-	-	1310
	Calcium	mg/L					-	-	-	62
	Chloride	mg/L					-	-	-	2220
	Conductivity	µs/cm					-	-	-	10,200
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	191
	Nitrate	mg/L					-	-	-	0.48
	Potassium	mg/L					-	-	-	26
	Sodium	mg/L					-	-	-	2150
	Standing Water Level	m					-	-	-	4.14
	Sulphate	mg/L					-	-	-	1320
pH	pH	-	-	-	7.7					
9	Ammonia	mg/L	Quarterly	1	30/11/2022	8/12/2022	-	-	-	3.1
	Bicarbonate	mg/L					-	-	-	955
	Calcium	mg/L					-	-	-	278
	Chloride	mg/L					-	-	-	1170



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	Conductivity	µs/cm					-	-	-	6180
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	230
	Nitrate	mg/L					-	-	-	0.16
	Potassium	mg/L					-	-	-	123
	Sodium	mg/L					-	-	-	727
	Standing Water Level	m					-	-	-	0.42
	Sulphate	mg/L					-	-	-	264
	pH	pH					-	-	-	7.1
10	Ammonia	mg/L	Quarterly	1	30/11/2022	8/12/2022	-	-	-	0.07
	Bicarbonate	mg/L					-	-	-	759
	Calcium	mg/L					-	-	-	240
	Chloride	mg/L					-	-	-	1440
	Conductivity	µs/cm					-	-	-	6100
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	226
	Nitrate	mg/L					-	-	-	10.3
	Potassium	mg/L					-	-	-	66
	Sodium	mg/L					-	-	-	739
	Standing Water Level	m					-	-	-	0.13
	Sulphate	mg/L					-	-	-	264
pH	pH	-	-	-	7.1					



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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	24/11/2022 – 25/11/2022	15 mins day	-	28	35	0.7	general site activity, traffic, birds and animals	No
		15 mins evening	-	29	35	0.8	General site activity, dozer operations, birds, insects, mechanical plant, animals	
		15 mins night	-	30	35	0.5	General site activity, dozer operations, insects dog	
	1 min night	34	-	45	0.5	General site activity, dozer operations, insects dog		

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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Figure 1 – EPL 3637 Monitoring Locations

