



## 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: August 2019

Obtained Date: 11<sup>th</sup> September 2019

Publication Date: 16<sup>th</sup> September 2019

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 <sup>2</sup> /month	Continuous	1	19/08/19	27/08/19	-	-	-	0.1
11	PM <sub>10</sub>	µg/m <sup>3</sup>	Every 6 days	5	Various	11/09/19	6.7	25.2	32.3	42
12	PM <sub>10</sub>	µg/m <sup>3</sup>	Every 6 days	5	Various	11/09/19	3	12.1	13.9	22.2
6	Conductivity	ms/cm	Each overflow event	-	-	-	-	-	-	-
	Oil and Grease	mg/L		-	-	-	-	-	-	-
	Total Organic Carbon	mg/L		-	-	-	-	-	-	-
	Total Suspended Solids	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	1	7/08/19	14/08/19	-	-	-	1860
	Oil and Grease	mg/L		1	7/08/19	14/08/19	-	-	-	<5
	Total Organic Carbon	mg/L		1	7/08/19	14/08/19	-	-	-	3
	Total Suspended Solids	mg/L		1	7/08/19	14/08/19	-	-	-	23
	pH	pH		1	7/08/19	14/08/19	-	-	-	7.5



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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	29/08/19	5/09/18	-	-	-	<0.01
	Bicarbonate	mg/L					-	-	-	1220
	Calcium	mg/L					-	-	-	50
	Chloride	mg/L					-	-	-	1770
	Conductivity	µs/cm					-	-	-	9420
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	169
	Nitrate	mg/L					-	-	-	0.52
	Potassium	mg/L					-	-	-	24
	Sodium	mg/L					-	-	-	1940
	Standing Water Level	m					-	-	-	8.92
	Sulphate	mg/L					-	-	-	1190
pH	pH	-	-	-	8.1					
9	Ammonia	mg/L	Quarterly	1	29/08/19	5/09/18	-	-	-	<0.01
	Bicarbonate	mg/L					-	-	-	737
	Calcium	mg/L					-	-	-	225
	Chloride	mg/L					-	-	-	1190
	Conductivity	µs/cm					-	-	-	5970
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	244
	Nitrate	mg/L					-	-	-	0.42



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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
	Potassium	mg/L					-	-	-	123
	Sodium	mg/L					-	-	-	711
	Standing Water Level	m					-	-	-	2.59
	Sulphate	mg/L					-	-	-	702
	pH	pH					-	-	-	7.5
10	Ammonia	mg/L	Quarterly	1	29/08/19	5/09/18	-	-	-	0.06
	Bicarbonate	mg/L					-	-	-	533
	Calcium	mg/L					-	-	-	157
	Chloride	mg/L					-	-	-	1450
	Conductivity	µs/cm					-	-	-	5880
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	227
	Nitrate	mg/L					-	-	-	12.3
	Potassium	mg/L					-	-	-	64
	Sodium	mg/L					-	-	-	732
	Standing Water Level	m					-	-	-	2.20
	Sulphate	mg/L					-	-	-	293
	pH	pH					-	-	-	8.0



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Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Start Time	Measurement Period	Measured levels – CHPP – dB(A)		Limit(s)	Wind speed (m/s)	Observations	(Potential) Non-compliance /breach
				L <sub>A1</sub> , 1 minute	L <sub>Aeq</sub> , 15 minute				
N1	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	

*When site noise is noted as inaudible, no site noise was audible at the monitoring location. Not Measurable 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<sub>Aeq</sub> 30 dB, which is insignificant in terms of any applicable criterion.*



# WHITEHAVEN COAL

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Figure 1 – EPL 3637 Monitoring Locations

