



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 2019

Obtained Date: 13th January 2019

Publication Date: 13th January 2020

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	19/12/19	31/12/19	-	-	-	0.9
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/01/20	33.2	89.6	88.9	175
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/01/20	34.4	84.22	88.9	144
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	0	-	-	-	-	-	-
	Oil and Grease	mg/L		-	-	-	-	-	-	-
	Total Organic Carbon	mg/L		-	-	-	-	-	-	-
	Total Suspended Solids	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-



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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	3/12/19	11/12/19	-	-	-	0.04
	Bicarbonate	mg/L					-	-	-	1350
	Calcium	mg/L					-	-	-	48
	Chloride	mg/L					-	-	-	1820
	Conductivity	µs/cm					-	-	-	9520
	Lead	mg/L					-	-	-	0.002
	Magnesium	mg/L					-	-	-	182
	Nitrate	mg/L					-	-	-	0.31
	Potassium	mg/L					-	-	-	30
	Sodium	mg/L					-	-	-	2020
	Standing Water Level	m					-	-	-	8.72
	Sulphate	mg/L					-	-	-	1470
pH	pH	-	-	-	7.8					
9	Ammonia	mg/L	Quarterly	1	3/12/19	11/12/19	-	-	-	0.01
	Bicarbonate	mg/L					-	-	-	800
	Calcium	mg/L					-	-	-	214
	Chloride	mg/L					-	-	-	1130
	Conductivity	µs/cm					-	-	-	5840
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	245
	Nitrate	mg/L					-	-	-	0.38



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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					-	-	-	133
	Sodium	mg/L					-	-	-	746
	Standing Water Level	m					-	-	-	2.92
	Sulphate	mg/L					-	-	-	794
	pH	pH					-	-	-	7.5
10	Ammonia	mg/L	Quarterly	1	3/12/19	11/12/19	-	-	-	6.39
	Bicarbonate	mg/L					-	-	-	693
	Calcium	mg/L					-	-	-	171
	Chloride	mg/L					-	-	-	1360
	Conductivity	µs/cm					-	-	-	5730
	Lead	mg/L					-	-	-	<0.001
	Magnesium	mg/L					-	-	-	226
	Nitrate	mg/L					-	-	-	<0.01
	Potassium	mg/L					-	-	-	64
	Sodium	mg/L					-	-	-	763
	Standing Water Level	m					-	-	-	2.44
	Sulphate	mg/L					-	-	-	246
	pH	pH					-	-	-	7.8



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Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period	Measured levels – CHPP – dB(A)		Limit(s)	Wind speed (m/s)	Observations	(Potential) Non-compliance /breach
			L _{A1} , 1 minute	L _{Aeq} , 15 minute				
N1	25/11/19	15 mins	-	I/A	35dBA	5.5 m/s WSW	-	N
	25/11/19	15 mins	-	N/M	35dBA	1.5 m/s E	Dozer Operation barely audible	
	25/11/19	15 mins	-	25	35dBA	1 m/s ESE	-	
	25/11/19	1 min	28	-	45dBA	1 m/s ESE	-	

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.



WHITEHAVEN COAL

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Figure 1 – EPL 3637 Monitoring Locations

