

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 2021 Obtained Date: 16 January 2022 Publication Date: 24 January 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/m²/month	Continuous	1	16/12/21	30/12/21	-	-	-	0.66
11	PM ₁₀	μg/m³	Every 6 days	5	Various	17/01/22	3.6	9.6	4.5	26.3
12	PM ₁₀	μg/m³	Every 6 days	5	Various	17/01/22	3.0	5.8	5.4	10.6
	Conductivity	μs/cm		0	-	-	-	-	-	-
	Oil and Grease	mg/L	Each overflow	0	-	-	-	-	-	-
6	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L	event	0	-	-	-	-	-	-
	рН	рН		0	-	-	-	-	-	-
	Conductivity	μs/cm					-	-	-	1180
	Oil and Grease	mg/L					-	-	-	<5
7	Total Organic Carbon	mg/L	Quarterly	1	9/12/2021	21/12/2021	-	-	-	9
	Total Suspended Solids	mg/L					-	-	1	18



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
	рН	рН					-			8.3

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
	Ammonia	mg/L	Quarterly			23/12/21	-	-	-	0.04
	Bicarbonate	mg/L		1	9/12/21		-	-	-	1140
	Calcium	mg/L					-	-	-	66
	Chloride	mg/L					-	-	-	2180
	Conductivity	μs/cm					-	-	-	9670
8	Lead	mg/L					-	-	-	0.001
	Magnesium	mg/L					1	-	-	186
	Nitrate	mg/L					-	-	-	2.14
	Potassium	mg/L					-	-	-	28
	Sodium	mg/L					-	-	-	2120
	Standing Water Level	m					-	-	-	5.26
	Sulphate	mg/L					-	-	-	1410
	рН	рН					-	-	-	7.7
	Ammonia	mg/L	Quarterly	1	9/12/21	23/12/21	-	-	-	0.08
9	Bicarbonate	mg/L					-	-	-	697
	Calcium	mg/L					-	-	-	232



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
	Chloride	mg/L					-	-	-	1180
	Conductivity	μs/cm					-	-	-	5890
	Lead	mg/L					-	-	-	0.001
	Magnesium	mg/L					1	ı	-	229
	Nitrate	mg/L					1	ı	-	1.15
	Potassium	mg/L					1	ı	-	119
	Sodium	mg/L					-	-	-	695
	Standing Water Level	M					-	-	-	1.03
	Sulphate	mg/L					-	-	-	699
	рН	рН					-	-	-	7.4
	Ammonia	mg/L			9/12/21	23/12/21	-	-	-	0.06
	Bicarbonate	mg/L					-	-	-	647
	Calcium	mg/L					-	-	-	208
	Chloride	mg/L					-	-	-	1470
	Conductivity	μs/cm					-	-	-	5950
	Lead	mg/L					-	-	-	0.001
10	Magnesium	mg/L	Quartarly				-	-	-	216
10	Nitrate	mg/L	Quarterly	1			-	-	-	3.04
	Potassium	mg/L					-	-	-	64
	Sodium	mg/L					-	-	-	703
	Standing Water Level	m					-	-	-	0.72
	Sulphate	mg/L					-	-	-	274
	рH	pН					-	-	-	7.3



Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Measurement Period	Measured levels – CHPP – dB(A) L _{A1} , 1 L _{Aeq} , 15 minute		Limit(s)- dB(A)	Wind speed (m/s)	Comments	(Potential) Non- compliance /breach
	14/12/21	15 mins day	-	N/M	35	1.8	CHPP barely audible	
N1		15 mins evening	1	30	35	2.5	-	Nie
INT		15 mins night	-	31	35	2.4		No
		1 min night	35	-	45	2.4	-	

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.

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.



EPL's (Overfow Main Storage)
EPR's (Nearols)

EPR's (Rearols)

Figure 1 – EPL 3637 Monitoring Locations