



## WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

### Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=29173&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 2012

Publication Date: 18<sup>th</sup> December 2012

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
1	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/11/12	27/11/12	-	-	-	7.9
2	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/11/12	27/11/12	-	-	-	0.8
3	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/11/12	27/11/12	-	-	-	1.5
4	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/11/12	27/11/12	-	-	-	1.5
5	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	20/11/12	27/11/12	-	-	-	8.5
	PM <sub>10</sub>	µg/m <sup>3</sup>	Every 6 days	5	Various	12/12/12	8.2	19.56	19	37.9
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	1	-	-	-	-	-	2230
	Oil and Grease	mg/L		1	-	-	-	-	-	<5
	Total Organic Carbon	mg/L		1	-	-	-	-	-	4
	Total Suspended Solids	mg/L		1	-	-	-	-	-	16
	pH	pH		1	-	-	-	-	-	8.53



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Table 2 – 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	28/11/12	6/12/12	-	-	-	0.03
	Bicarbonate	mg/L		1	28/11/12	6/12/12	-	-	-	1310
	Calcium	mg/L		1	28/11/12	6/12/12	-	-	-	31
	Chloride	mg/L		1	28/11/12	6/12/12	-	-	-	1210
	Conductivity	µs/cm		1	28/11/12	6/12/12	-	-	-	7330
	Lead	mg/L		1	28/11/12	6/12/12	-	-	-	0.006
	Magnesium	mg/L		1	28/11/12	6/12/12	-	-	-	106
	Nitrate	mg/L		1	28/11/12	6/12/12	-	-	-	0.41
	Potassium	mg/L		1	28/11/12	6/12/12	-	-	-	22
	Sodium	mg/L		1	28/11/12	6/12/12	-	-	-	1480
	Standing Water Level	m		1	28/11/12	6/12/12	-	-	-	6.29
	Sulphate	mg/L		1	28/11/12	6/12/12	-	-	-	611
pH	pH	1	28/11/12	6/12/12	-	-	-	8.32		
9	Ammonia	mg/L	Quarterly	1	28/11/12	6/12/12	-	-	-	<0.01
	Bicarbonate	mg/L		1	28/11/12	6/12/12	-	-	-	796
	Calcium	mg/L		1	28/11/12	6/12/12	-	-	-	261
	Chloride	mg/L		1	28/11/12	6/12/12	-	-	-	1240
	Conductivity	µs/cm		1	28/11/12	6/12/12	-	-	-	6370
	Lead	mg/L		1	28/11/12	6/12/12	-	-	-	0.003
	Magnesium	mg/L		1	28/11/12	6/12/12	-	-	-	245
	Nitrate	mg/L		1	28/11/12	6/12/12	-	-	-	0.24
	Potassium	mg/L		1	28/11/12	6/12/12	-	-	-	117
	Sodium	mg/L		1	28/11/12	6/12/12	-	-	-	748
	Standing Water Level	m		1	28/11/12	6/12/12	-	-	-	1.84
	Sulphate	mg/L		1	28/11/12	6/12/12	-	-	-	634
pH	pH	1	28/11/12	6/12/12	-	-	-	7.54		
10	Ammonia	mg/L	Quarterly	1	28/11/12	6/12/12	-	-	-	0.03



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	<b>Bicarbonate</b>	<b>mg/L</b>		1	28/11/12	6/12/12	-	-	-	692
	<b>Calcium</b>	<b>mg/L</b>		1	28/11/12	6/12/12	-	-	-	212
	<b>Chloride</b>	<b>mg/L</b>		1	28/11/12	6/12/12	-	-	-	1400
	<b>Conductivity</b>	<b>µs/cm</b>		1	28/11/12	6/12/12	-	-	-	6250
	<b>Lead</b>	<b>mg/L</b>		1	28/11/12	6/12/12	-	-	-	0.002
	<b>Magnesium</b>	<b>mg/L</b>		1	28/11/12	6/12/12	-	-	-	222
	<b>Nitrate</b>	<b>mg/L</b>		1	28/11/12	6/12/12	-	-	-	12.5
	<b>Potassium</b>	<b>mg/L</b>		1	28/11/12	6/12/12	-	-	-	64
	<b>Sodium</b>	<b>mg/L</b>		1	28/11/12	6/12/12	-	-	-	734
	<b>Standing Water Level</b>	<b>m</b>		1	28/11/12	6/12/12	-	-	-	1.03
	<b>Sulphate</b>	<b>mg/L</b>		1	28/11/12	6/12/12	-	-	-	264
	<b>pH</b>	<b>pH</b>		1	28/11/12	6/12/12	-	-	-	7.50

**Table 3 – Monitoring (Quarterly Noise – Limits Apply)**

EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather	Observations	(Potential) Non-compliance /breach
				L <sub>A1, 1</sub> Minute	L <sub>Aeq, 15</sub> Minute				
N1	-	-	-		-	<b>Day - 38</b>	-	No monitoring this month	-
	-	-	-		-	<b>Evening - 37</b>	-	No monitoring this month	-
	-	-	-		-	<b>Night - 35</b>	-	No monitoring this month	-
	-	-	-	-		<b>Night - 45</b>	-	No monitoring this month	-



**WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY**

Figure 1 – EPL 3637 Monitoring Locations

