

Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33516&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: January 2015

Publication Date: 25th February 2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/01/2015	29/01/2015	-	-	-	<0.1
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/01/2015	29/01/2015	-	-	-	1.0
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/01/2015	29/01/2015	-	-	-	1.5
10	PM ₁₀	μg/m³	Every 6 days	5	Various		8.2	10.2	9.3	15.3
11	Conductivity	μS/cm	Special	0			-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	-	=	-	-	-
12	Conductivity	μS /cm	Special	0			=	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	-	-	=	-	-	-
	TSS	mg/L					=	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					=	-	-	=
	Total organic carbon	mg/L					=	-	-	-



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L					ı	-	-	-
	Conductivity	μS/cm	Constal				-	-	-	-
	Oil & Grease	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
14	рН	рН	Frequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Constal				-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
	рН	рН	Trequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				1	-	1	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	ı	-	ı	-	-
	рН	рН	1*				ı	-	ı	-	
	TSS	mg/L	Special				ı	-	ı	-	
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	-
	рН	рН	1*				ı	-	ı	-	

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Vacul				-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) L _{eq 15min Evening}	Measured Levels – dB(A) L _{eq 15min Night}	Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
								35 dB(A) Leq (15 min) Day, Evening, Night			
N1								45dB(A) L _A (1 min) Night			
N2								35 dB(A) Leq (15 min) Day, Evening, Night			No monitoring this month
								45dB(A) L _A (1 min) Night			

Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine



Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	2	102.7	105.3	120	No
BB1	Blast Vibration	mm/s	Every Blast	2	0.23	0.25	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	2	106.7	108.0	120	No
BB3	Blast Vibration	mm/s	Every Blast	2	0.31	0.41	10	No





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: February 2015 Publication Date: 21st April 2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/2/15	27/2/15	-	-	-	1.8
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/2/15	27/2/15	-	-	-	2.4
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/2/15	27/2/15	-	-	-	1.8
10	PM ₁₀	μg/m³	Every 6 days	5	Various	13/3/15	5.0	8.9	8.9	13.8
11	Conductivity	μS/cm	Special	0			-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	-	-	-	-	-
12	Conductivity	μS /cm	Special	0			-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	-	-	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	C i - l				-	-	-	-
	Oil & Grease	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
14	рН	рН	Frequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	6				-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
	рН	рН	Frequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				ı	-	ı	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	1	-	-	-	-
	рН	рН	1*				-	-	1	-	
	TSS	mg/L	Special				-	-	-	-	
12	Oil & Grease	mg/L	Frequency	0	-	-	ı	-	-	-	-
	рН	рН	1*				-	-	-	-	

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Ma auli				-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	2260
	Oil & Grease	mg/L					-	-	-	<5
16	рН	рН	Quarterly	1	11/2/15	23/2/15	-	-	-	9.15
	TOC	mg/L					-	-	-	4
	TSS	mg/L					=	-	-	46



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
								35 dB(A) Leq (15 min) Day, Evening, Night			
N1								45dB(A) L _A (1 min) Night			
								35 dB(A) Leq (15 min)			No monitoring this month
N2								Day, Evening, Night 45dB(A) L _A (1 min) Night			

Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine



Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	2*	-	95.4	120	No
PDI	Blast Vibration	mm/s	Every Blast	2.	-	0.15	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	2*	-	92.1	120	No
BB3	Blast Vibration	mm/s	Every Blast	Δ΄	-	0.41	10	No

^{*} Note: Very small shot on 3/2/15 resulted in no trigger





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: March 2015 Publication Date: 21st April 2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/3/15	26/3/15	-	-	-	0.7
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/3/15	26/3/15	-	-	-	0.5
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/3/15	26/3/15	-	-	-	1.6
10	PM ₁₀	μg/m³	Every 6 days	5	Various	13/4/15	7.3	18.3	17.8	30.9
11	Conductivity	μS/cm	Special	0	_		-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	_	-	-	-	-
12	Conductivity	μS /cm	Special	0			-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	-	_	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Constant				-	-	-	-
	Oil & Grease	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
14	рН	рН	Frequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Special Frequency 2**	0	-		-	-	-	-
15	Oil & Grease	mg/L				-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	=

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				1	-	-	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	-
	рН	рН	1*				1	-	ı	-	
	TSS	mg/L	Special				ı	-	ı	-	
12	Oil & Grease	mg/L	Frequency	0	-	-	1	-	-	-	-
	рН	рН	1*				-	-	-	-	

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Wa a sh				-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L]				-	-	-	-
	TSS	mg/L]				-	-	-	-



Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
				Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA 1min Night				
		10:58am	90 mins	Inaudible					1.3/W	Υ	
	23/3/15	8:29pm	30 mins		Inaudible				Calm	Υ	
	20,0,10	10:25pm	60 mins			Inaudible			Calm	Υ	
		10:25pm	60 mins				n/a		Calm	Υ	
		9:08am	90 mins	Inaudible				35 dB(A) Leq (15 min)	1.4/N		
N1	24/3/15	8:32pm	30 mins		26			Day, Evening, Night	2.0/E		
INI	24/3/13	11:16pm	60 mins			Inaudible		45dB(A) L _A (1 min)	0.8/SW		
		11:16pm	60 mins				n/a	Night	0.8/SW		
		10:11am	90 mins	Inaudible					0.4/SW		
	25/3/15	9:13pm	30 mins		22				Calm		
	23/3/13	11:31pm	60 mins			Inaudible			Calm		
		11:31pm	60 mins				n/a		Calm		No monitoring this month
		9:10am	90 mins	Inaudible					0.9/N		NO monitoring this month
	23/3/15	9:20pm	30 mins		27				Calm		
	23/3/13	11:41pm	60 mins			Inaudible			Calm		
		11:41pm	60 mins						Calm		
		7:20am	90 mins	35				35 dB(A) Leq (15 min)	0.4/NE		
N2	24/3/15	7:44pm	30 mins		Inaudible			Day, Evening, Night	1.1/E		
INZ	24/5/15	10:01pm	60 mins			24		45dB(A) L _A (1 min)	0.4/SW		
		10:01pm	60 mins				28	Night	0.8/SW		
		8:26am	90 mins	27					Calm		
	25 /2 /45	8:15pm	30 mins		27				Calm		
	25/3/15	10:15pm	60 mins			Inaudible			0.3/ESE		
		10:15pm	60 mins				n/a		0.3/ESE		

Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine



Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	1	-	95.4	120	No
PDI	Blast Vibration	mm/s	Every Blast		-	0.15	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	1	-	113.3	120	No
BB3	Blast Vibration	mm/s	Every Blast	1	-	0.38	10	No





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: April 2015 Publication Date: 13th May 2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/4/2015	28/4/2015	-	-	-	1.4
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/4/2015	28/4/2015	ı	-	-	1.0
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/4/2015	28/4/2015	-	-	-	0.7
10	PM ₁₀	μg/m³	Every 6 days	5	Various	12/5/2015	2.4	8.88	7.1	22.3
11	Conductivity	μS/cm	Special	1	7/4/2015	14/4/2015	1	-	-	129
11	Total organic carbon	mg/L	Frequency 1*	1	7/4/2013	14/4/2015	-	-	-	13
12	Conductivity	μS /cm	Special	1	21/4/2015	28/4/2015	1	-	-	301
12	Total organic carbon	mg/L	Frequency 1*	1	21/4/2015	28/4/2015	-	-	-	5
	TSS	mg/L					24	45.5	45.5	67
	Conductivity	μS/cm	Special				43	50	50	57
13	Oil & Grease	mg/L	Frequency 2**	2	Various	Various	<5	<5	<5	<5
	рН	рН					7.04	7.09	7.09	7.14
	Total organic carbon	mg/L					7	8	8	9

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L					49	95	95	141
	Conductivity	μS/cm	Carriel				54	57	57	60
	Oil & Grease	mg/L	Special Frequency 2**	2	Various	Various	<5	<5	<5	<5
14	рН	рН	Trequency 2				7.01	7.035	7.035	7.06
	Total organic carbon	mg/L					6	6.5	6.5	7
	TSS	mg/L					74	129	129	184
	Conductivity	μS /cm	Special Frequency 2**	2	Various		132	134.5	134.5	137
15	Oil & Grease	mg/L				Various	<5	<5	<5	<5
	рН	рН	Frequency 2				7.4	7.45	7.45	7.51
	Total organic carbon	mg/L					9	10	10	11

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L					1	353	50	Yes	Compliant.
	Oil & Grease	mg/L	Special				-	<5	10	No	Received
11	рН	рН	Frequency 1*	1	7/4/2015	14/4/2015	1	8.12	6.5-8.5	No	rainfall greater than 38.4mm
12	TSS	mg/L	Special	1	21/4/2015	20/4/2015	-	222	50	Yes	Compliant.
12	Oil & Grease	mg/L	Frequency	1	21/4/2015	28/4/2015	-	<5	10	No	Received

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



WHITEHAVEN COAL

Rocglen Coal Mine- Monthly Monitoring Summary

		1*						rainfall
	l	_			7.04	6505		_
рН	рН			-	7.04	6.5-8.5	No	greater than
								38.4mm

Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					1	-	-	1
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Wa a uli i				-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-

Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
				L _{eq 15min Day}	L _{eq 15min Evening}	L _{eq 15min Night}	L _{A 1min Night}				
		-	90 mins	Inaudible					-	-	
	-	-	30 mins		Inaudible				-	-	
		-	60 mins			Inaudible			-	-	
		-	60 mins				n/a		-	-	
		-	90 mins	Inaudible				35 dB(A) Leq (15 min)	-	-	
N1	_	-	30 mins		26			Day, Evening, Night	-	-	
INI		-	60 mins			Inaudible		45dB(A) L _A (1 min)	-	-	
		-	60 mins				n/a	Night	-	-	
		-	90 mins	Inaudible					-	-	
		-	30 mins		22				-	-	
	-	-	60 mins			Inaudible			-	-	
		-	60 mins				n/a		-	-	No monitoring this month
		-	90 mins	Inaudible					-	-	
		-	30 mins		27				-	-	
	-	-	60 mins			Inaudible			-	-	
		-	60 mins						-	-	
		-	90 mins	35				35 dB(A) Leq (15 min) Day, Evening, Night	-	-	
N2		-	30 mins		Inaudible				-	-	
	-	-	60 mins			24		45dB(A) L _A (1 min)	-	-	
		-	60 mins				28	Night	-	-	
		-	90 mins	27					-	-	
	-	-	30 mins		27				-	-	
		-	60 mins			Inaudible			-	-	

EPL	Date	Start	Period	Measured	Measured	Measured	Measured	Limits	Wind speed/	Compliant	Comments
ID		Time	(mins)	Levels –	Levels –	Levels –	Levels –		direction	(Y/N)	
				dB(A)	dB(A)	dB(A)	dB(A)				
				Leq 15min Day	Leq 15min Evening	Leq 15min Night	L _{A 1min Night}				
		-	60 mins				n/a		-	-	

⁻Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	2	97.9	104.1	120	No
PDI	Blast Vibration	mm/s	Every Blast	2	0.35	0.5	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	2	106.85	108.5	120	No
BB3	Blast Vibration	mm/s	Every Blast	2	0.595	0.73	10	No





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: May 2015 Publication Date: 23/06/2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/05/2015	26/05/2015	-	-	-	1.0
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/05/2015	26/05/2015	1	-	-	<0.1
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/05/2015	26/05/2015	-	-	-	0.2
10	PM ₁₀	μg/m³	Every 6 days	5	Various	16/06/2015	3.0	9	7.2	16.4
11	Conductivity	μS/cm	Special	0			1	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	-	-	-	-	-
12	Conductivity	μS /cm	Special	0			1	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	-	-	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН] ' ',				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-



WHITEHAVEN COAL

Rocglen Coal Mine- Monthly Monitoring Summary

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L					ı	-	-	-
	Conductivity	μS/cm	Conside				-	-	-	-
	Oil & Grease pH	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
14	рН	рН	Frequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Consist		-		-	-	-	-
15	Oil & Grease	mg/L	Special	0		-	-	-	-	-
	рН	рН	Frequency 2**				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special								
11	Oil & Grease	mg/L	Frequency	0							
	рН	рН	1*								
	TSS	mg/L	Special								
12	Oil & Grease	mg/L	Frequency	0							
	рН	рН	1*								

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					1	-	-	<0.01
	Arsenic	mg/L					-	-	-	0.008
	Bicarbonate	mg/L	Ma auli				-	-	-	195
16	Chloride	mg/L	Yearly	0	11/05/2015	19/05/2015	-	-	-	378
	Iron	mg/L					-	-	-	<0.05
	Manganese	mg/L					-	-	-	<0.001
	Sodium	mg/L					-	-	-	416
	Conductivity	μS/cm					-	-	-	1950
	Oil & Grease	mg/L	Quarterly				-	-	-	<5
16	рН	рН		0	11/05/2015	19/05/2015	-	-	-	9.16
	TOC	mg/L			11/03/2013	13,03,2013	-	-	-	6
	TSS	mg/L					-	-	-	33

Table 4 - Monitoring (Noise - Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) L _{eq 15min Night}	Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed/ direction	Compliant (Y/N)	Comments
		-	90 mins	Inaudible					-	-	
	_	-	30 mins		Inaudible				-	-	
	-	-	60 mins			Inaudible			-	-	
		-	60 mins				n/a		-	-	
		-	90 mins	Inaudible				35 dB(A) Leq (15 min)	-	-	
N1	_	-	30 mins		26			Day, Evening, Night	-	-	
INI		-	60 mins			Inaudible		45dB(A) L _A (1 min)	-	-	
		-	60 mins				n/a	Night	-	-	
		-	90 mins	Inaudible					-	-	
	_	-	30 mins		22				-	-	
		-	60 mins			Inaudible			-	-	No monitoring this month
		-	60 mins				n/a		-	-	
		-	90 mins	Inaudible					-	-	
	_	-	30 mins		27				-	-	
		-	60 mins			Inaudible		25 dD(A) (45 min)	-	-	
		-	60 mins					35 dB(A) Leq (15 min) Day, Evening, Night	-	-	
N2		-	90 mins	35							
	_	-	30 mins		Inaudible			45dB(A) L _A (1 min) Night	-	-	
		-	60 mins			24			-	-	
		-	60 mins				28		-	-	
	-	-	90 mins	27					-	-	

EPL	Date	Start	Period	Measured	Measured	Measured	Measured	Limits	Wind speed/	Compliant	Comments
ID		Time	(mins)	Levels – dB(A)	Levels – dB(A)	Levels – dB(A)	Levels – dB(A)		direction	(Y/N)	
				Leq 15min Day	Leq 15min Evening	Leq 15min Night	L _{A 1min Night}				
		-	30 mins		27				-	-	
		-	60 mins			Inaudible			-	-	
		-	60 mins				n/a		-	-	

-Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	0	1	-	1	-
DDI	Blast Vibration	mm/s	Every Blast	U	1	-	1	-
BB3	Blast Noise	dB (Lin Peak)	Every Blast	0	1	-	1	-
DB3	Blast Vibration	mm/s	Every Blast	0	-	-	-	-





Figure 1 – EPL 12870 Monitoring Locations



Mine-

Monthly Monitoring Summary

Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: June 2015 Publication Date: 21st July 2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	22/06/2015	26/06/2015	-	-	-	0.3
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	22/06/2015	26/06/2015	-	-	-	<0.1
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	22/06/2015	26/06/2015	-	-	-	<0.1
10	PM ₁₀	μg/m³	Every 6 days	5	Various	09/07/2015	1.7	3.9	3.1	6.5
11	Conductivity	μS/cm	Special	0			-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	. ()		-	-	-	-	-
12	Conductivity	μS /cm	Special	0			-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	0	-	-	-	-	-	-
	TSS	mg/L					11	14	14	17
	Conductivity		Special				69	95	95	121
13	Oil & Grease	mg/L	Frequency 2**	2	Various	Various	<5	<5	<5	<5
	рН	рН					6.9	6.92	6.92	6.95
	Total organic carbon	mg/L					12	15	15	18



Mine-

Monthly Monitoring Summary

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L					74	74.5	74.5	75
	Conductivity	μS/cm	Consist				102	166	166	230
14	Oil & Grease	mg/L	Special Frequency 2**	2	Various	Various	<5	<5	<5	<5
14	рН	рН	Trequency 2				7.18	7.19	7.19	7.2
	Total organic carbon	mg/L					11	11.5	11.5	12
	TSS	mg/L					6	8	8	10
	Conductivity	μS /cm	Special Frequency 2**	2	Various		138	143.5	143.5	149
15	Oil & Grease	mg/L				Various	<5	<5	<5	<5
	рН	рН	Trequency 2				7.47	7.63	7.63	7.78
	Total organic carbon	mg/L					9	9.56	9.5	10

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				1	-	-	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	1	-	-	-	-
	рН	рН	1*				1	-	-	-	
	TSS	mg/L	Special				-	-	-	-	
12	Oil & Grease	mg/L	Frequency	0	-	-	1	-	-	-	-
	рН	рН	1*				-	-	-	-	

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Mine-

Monthly Monitoring Summary

Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L		0	-	-	-	-	-	-
	Arsenic	mg/L					-	-	-	-
16	Bicarbonate	mg/L	Yearly				1	-	-	-
	Chloride	mg/L					-	-	-	-
	Iron	mg/L					1	-	-	-
	Manganese	mg/L					1	-	-	-
	Sodium	mg/L					1	-	-	-
	Conductivity	μS/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L	Quarterly				-	-	-	-
16	рН	рН					-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-



Mine-

Monthly Monitoring Summary

Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) La 1 min Night	Limits	Wind speed (m/s) /direction	Compliant (Y/N)	Comments
	09/06/2015	2:59 pm	90 mins	<20					1.0/ WNW	Υ	
		9:05 pm	30 mins		33				0.4/ ESE	Υ	
		11:12 pm	60 mins			21			0.4/ E	Υ	
		11:12 pm	60 mins				<20		0.4/ E	Υ	
		8:50 am	90 mins	31				35 dB(A) Leq (15 min)	0.7 /SSE	Υ	
N1	10/06/2015	9:15 pm	30 mins		22			Day, Evening, Night	4.0/ E	Υ	
INI	10/06/2015	11:14 pm	60 mins			<20		45dB(A) L _A (1 min) Night	5.6 /ESE	Υ	
		11:14 pm	60 mins				37		5.6/ ESE	Υ	
	11/06/2015	10:34 am	90 mins	<20					4.3/ ESE	Υ	
		9:14 pm	30 mins		<20				3.6/ E	Υ	
		11:13 pm	60 mins			<20			3.5/ E	Υ	
		11:13 pm	60 mins				<20		3.5/ E	Υ	
		1:15 pm	90 mins	<20					2.9/ W	Υ	
	09/06/2015	8:22 pm	30 mins		32				0.2/ NNE	Υ	
	09/06/2015	10:00 pm	60 mins			29		35 dB(A) Leq (15 min) Day, Evening, Night 45dB(A) L _A (1 min) Night	0.4/ ESE	Υ	
		10:00 pm	60 mins				28		0.4/ ESE	Υ	
N2		7:06 am	90 mins	27					0.2/ E	Υ	
	10/06/2015	8:31 pm	30 mins		31				3.8/ E	Υ	
		10:00 pm	60 mins			31			4.1/ E	Υ	
		10:00 pm	60 mins				36		4.1/ E	Υ	
	11/06/2015	7:04 am	90 mins	<20					1.3/ SE	Υ	



Mine-

Monthly Monitoring Summary

EPL ID	Date	Start Time	Period (mins)	Measured Levels – dB(A) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) L _{eq 15min Night}	Measured Levels – dB(A) La 1 min Night	Limits	Wind speed (m/s) /direction	Compliant (Y/N)	Comments
		8:29 pm	30 mins		27				3.4/ E	Υ	
		10:01 pm	60 mins			31			3.9/ E	Υ	
		10:01 pm	60 mins				35		3.9/ E	Υ	

-Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine

Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	1	-	101.3	120	No
BB1	Blast Vibration	mm/s	Every Blast	1	-	0.28	10	No
DD2	Blast Noise	dB (Lin Peak)	Every Blast	1	-	104.5	120	No
BB3	Blast Vibration	mm/s	Every Blast	1	-	0.63	10	No

Rocglen Coal Mine-

Monthly Monitoring Summary



Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: July 2015

Publication Date: 13th August 2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	20-07-15	31-07-15	-	-	-	0.8
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	20-07-15	31-07-15	-	-	-	0.4
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	20-07-15	31-07-15	-	-	-	<0.1
10	PM ₁₀	μg/m³	Every 6 days	5	Various	10/08/15	2.6	3.6	3.7	5.0
11	Conductivity	μS/cm	Special	0	_	_	-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	_	-	-	-	-
12	Conductivity	μS /cm	Special	0			-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	-	_	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L		-	-	-	-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
14	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special				-	-	-	-
	рН	рН	Frequency 2**				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Consist				-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	рН	рН	Trequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	1	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	рН	рН	1*				-	-	1	-	
	TSS	mg/L	Special				-	-	1	-	
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	-
	рН	рН	1*				-	-	-	-	

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Voorb				-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels –	Measured Levels –	Measured Levels –	Measured Levels –	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
			, ,	dB(A)	dB(A)	dB(A)	dB(A)		/direction	, , ,	
				Leq 15min Day	Leq 15min Evening	Leq 15min Night	L _{A 1min Night}				
			90 mins								
	-		30 mins								
			60 mins								
			60 mins								
			90 mins					35 dB(A) Leq (15 min)			
N1	-		30 mins					Day, Evening, Night			
111			60 mins					45dB(A) L _A (1 min)			
			60 mins					Night			
			90 mins								
	_		30 mins								
	-		60 mins								
			60 mins								
			90 mins								
	_		30 mins								
	-		60 mins								
			60 mins								
			90 mins					35 dB(A) Leq (15 min)			
N2	_		30 mins					Day, Evening, Night			
INZ	-		60 mins					45dB(A) L _A (1 min)			
			60 mins					Night			
			90 mins								
	-		30 mins		27						
	-		60 mins			31					
			60 mins				35				

-Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine



Rocglen Coal Mine- Monthly Monitoring Summary Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	1	1	99.1	120	No
PPI	Blast Vibration	mm/s	Every Blast	1	-	0.12	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	1	-	105.1	120	No
BB3	Blast Vibration	mm/s	Every Blast	1	-	0.38	10	No





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: August 2015

Publication Date: 21st September 2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	19-08-15	18-09-15	ı	-	-	<0.1
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	19-08-15	18-09-15	-	-	-	<0.1
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	19-08-15	18-09-15	-	-	-	<0.1
10	PM ₁₀	μg/m³	Every 6 days	5	Various	4-09-15	5.0	9.06	8.8	16.7
11	Conductivity	μS/cm	Special	0	_	_	-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	_	ı	-	-	-
12	Conductivity	μS /cm	Special	0			ı	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	-	_	ı	-	-	-
	TSS	mg/L					1	-	-	-
	Conductivity	μS/cm	Special				ı	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L		-	-	-	ı	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
14	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special				-	-	-	-
	рН	рН	Frequency 2**				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Consist				-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	рН	рН	Trequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	1	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	рН	рН	1*				-	-	1	-	
	TSS	mg/L	Special				-	-	1	-	
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	-
	рН	рН	1*				-	-	-	-	

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	1	-	-
	Arsenic	mg/L					-	1	-	-
	Bicarbonate	mg/L	Voorb				-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	•	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	1700
	Oil & Grease	mg/L					-	-	-	<5
16	рН	рН	Quarterly	1	18-08-15	25-08-15	-	-	-	8.75
	TOC	mg/L					-	-	-	3
	TSS	mg/L					-	-	-	23



Rocglen Coal Mine- Monthly Monitoring Summary Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels –	Measured Levels –	Measured Levels –	Measured Levels –	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
			, ,	dB(A)	dB(A)	dB(A)	dB(A)		/direction	, , ,	
				Leq 15min Day	Leq 15min Evening	Leq 15min Night	L _{A 1min Night}				
			90 mins								
	-		30 mins								
			60 mins								
			60 mins								
			90 mins					35 dB(A) Leq (15 min)			
N1	-		30 mins					Day, Evening, Night			
111			60 mins					45dB(A) L _A (1 min)			
			60 mins					Night			
			90 mins								
	_		30 mins								
	-		60 mins								
			60 mins								
			90 mins								
	_		30 mins								
	-		60 mins								
			60 mins								
			90 mins					35 dB(A) Leq (15 min)			
N2	_		30 mins					Day, Evening, Night			
INZ	-		60 mins					45dB(A) L _A (1 min)			
			60 mins					Night			
			90 mins								
	-		30 mins		27						
	-		60 mins			31					
			60 mins				35				

-Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine



Rocglen Coal Mine- Monthly Monitoring Summary Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	1	1	100.0	120	No
PDI	Blast Vibration	mm/s	Every Blast	1	-	0.25	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	1	-	95.2	120	No
DDS	Blast Vibration	mm/s	Every Blast	1	-	0.31	10	No





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: September 2015 **Publication Date:** 22 October 2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	18-09-2015	29-09-2015	-	-	-	1.0
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	18-09-2015	29-09-2015	-	-	-	1.2
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	18-09-2015	29-09-2015	-	-	-	0.8
10	PM ₁₀	μg/m³	Every 6 days	5	Various	13-10-2015	7.2	11.9	8.7	25.9
11	Conductivity	μS/cm	Special	0	_		-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	-	-	-	-	-
12	Conductivity	μS /cm	Special	0			-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	-	-	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L		-	-	-	-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
14	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special				-	-	-	-
	рН	рН	Frequency 2**				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Consist				-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	рН	рН	Trequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	1	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	рН	рН	1*				-	-	1	-	
	TSS	mg/L	Special				-	-	1	-	
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	-
	рН	рН	1*				-	-	-	-	

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Voorb				-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels –	Measured Levels –	Measured Levels –	Measured Levels –	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
				dB(A)	dB(A)	dB(A)	dB(A)		/direction		
				Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA 1min Night				
		4:20pm	90 mins	<20					1.5 / 286	Υ	
	14-09-2015	9:19pm	30 mins		<20				1.7 / 30	Y	
		11:23pm	60 mins			<20			2.3 / 20	Υ	
		11:23pm	60 mins				<20		2.3 / 20	Υ	
	15-09-2015	10:14am	90 mins	<20				35 dB(A) Leq (15 min)	4.4 / 307	Υ	
N1		9:11pm	30 mins		31			Day, Evening, Night	2.5 / 180	Υ	
INI	17-09-2015	11:16pm	60 mins			30		45dB(A) L _A (1 min)	3.1 / 155	Υ	
		11:16pm	60 mins				35	Night	3.1 / 155	Υ	
		9:34am	90 mins	<20					1.6 / 162	Υ	
	46 00 2045	9:19pm	30 mins		25				0.5 / 156	Υ	
	16-09-2015	11:22pm	60 mins			30			0.7 / 14	Υ	Noise monitoring was interrupted on the 15 th
		11:22pm	60 mins				36		0.7 / 14	Υ	September due to storms restricting mining
		2:32pm	90 mins	23					1.3 / 23	Υ	operations. Additional monitoring was
	44.00.2045	8:33pm	30 mins		28				1.5 / 10	Υ	undertaken on the 17 th September in response.
	14-09-2015	10:07pm	60 mins			31			2.2 / 17	Υ	
		10:07pm	60 mins				36		2.2 / 17	Υ	
	15-09-2015	8:21am	90 mins	29				35 dB(A) Leq (15 min)	1.3 / 270	Υ	
N2		8:27pm	30 mins		<20			Day, Evening, Night	2.8 / 185	Υ	
NZ	17-09-2015	10:01pm	60 mins			<20		45dB(A) L _A (1 min)	2.7 / 161	Υ	
		10:01pm	60 mins				<20	Night	2.7 / 161	Υ	
		7:49am	90 mins	33					0.5 / 330	Υ	
	16 00 2015	8:35pm	30 mins		<20				1.0 / 144	Υ	
	16-09-2015	10:08pm	60 mins			20			1.1 / 182	Υ	
		10:08pm	60 mins				23		1.1 / 182	Υ	

-Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine



Rocglen Coal Mine- Monthly Monitoring Summary Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	4	94.3	108.2	120	No
BB1	Blast Vibration	mm/s	Every Blast	4	0.15	0.23	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	4	103.9	109.9	120	No
BB3	Blast Vibration	mm/s	Every Blast	4	0.29	0.54	10	No





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: October 2015

Publication Date: 10th November 2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	20-10-15	23-10-15	-	-	-	0.2
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	20-10-15	23-10-15	-	-	-	0.4
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	20-10-15	23-10-15	-	-	-	0.5
10	PM ₁₀	μg/m³	Every 6 days	5	Various	09-10-15	12.8	20.32	16.4	35.1
11	Conductivity	μS/cm	Special	0			-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	_	-	-	-	ı
12	Conductivity	μS /cm	Special	0			-	-	-	ı
12	Total organic carbon	mg/L	Frequency 1*	U	-	_	-	-	-	ı
	TSS	mg/L					-	-	-	ı
	Conductivity	μS/cm	Special				-	-	-	ı
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	ı
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L		-	-	-	-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
14	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special				-	-	-	-
	рН	рН	Frequency 2**				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Consist				-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	рН	рН	Trequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	1	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	рН	рН	1*				-	-	1	-	
	TSS	mg/L	Special				-	-	1	-	
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	-
	рН	рН	1*				-	-	-	-	

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Voorb				-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Limits	Wind speed (m/s) /direction	Compliant (Y/N)	Comments
		-	_	Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA 1min Night		-	-	
		-	_		-				<u> </u>	-	
	-	-	_		-	-			<u> </u>	-	
		-	-			-	-		-	-	
	-	-	-	_			-		<u>-</u>		
	-			-				35 dB(A) Leq (15 min) Day, Evening, Night		-	
N1		-	-		-				-	-	
	-	-	-			-		45dB(A) L₄ (1 min) Night	-	-	
		-	-				-	Nignt	-	-	
		-	-	-					-	-	
	-	-	-		-				-	-	
		-	-			-			-	-	
		-	-				-		-	-	
		-	-	-					-	-	
	-	-	-		-				-	-	
		-	-			-			-	-	
		-	-				-		-	-	
	-	-	-	-				35 dB(A) Leq (15 min)	-	-	
N2		-	-		-			Day, Evening, Night	-	-	
INZ	-	-	-			-		45dB(A) L _A (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	

-Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine



Rocglen Coal Mine- Monthly Monitoring Summary Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
BB1	Blast Noise	dB (Lin Peak)	Every Blast	2	97.2	109.1	120	No
PPI	Blast Vibration	mm/s	Every Blast	3	0.16	0.33	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	2	96.2	108.9	120	No
BB3	Blast Vibration	mm/s	Every Blast	3	0.48	1.01	10	No





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: November 2015 Publication Date: 17 December 2015

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/11/15	27/11/15	-	-	-	0.8
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/11/15	27/11/15	-	-	-	3.1
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	19/11/15	27/11/15	-	-	-	1.1
10	PM ₁₀	μg/m³	Every 6 days	5	Various	9/12/15	9.9	18.82	17.8	26.0
11	Conductivity	μS/cm	Special	0	_		-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	_	-	-	-	-
12	Conductivity	μS /cm	Special	0			-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	-	_	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L		-	-	-	-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
14	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special				-	-	-	-
	рН	рН	Frequency 2**				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Consist				-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	рН	рН	Trequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	1	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	рН	рН	1*				-	-	1	-	
	TSS	mg/L	Special				-	-	1	-	
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	-
	рН	рН	1*				-	-	-	-	

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					ı	1	-	-
	Arsenic	mg/L					-	ı	-	-
	Bicarbonate	mg/L	Ma auli				-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	2070
	Oil & Grease	mg/L					-	-	-	<5
16	рН	рН	Quarterly	1	19/11/15	27/11/15	-	-	-	9.00
	TOC	mg/L					-	-	-	4
	TSS	mg/L					-	-	-	6



Rocglen Coal Mine- Monthly Monitoring Summary Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Measured Levels – dB(A)	Limits	Wind speed (m/s) /direction	Compliant (Y/N)	Comments
		-	_	Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA 1min Night		-	-	
		-	_		-				<u> </u>	-	
	-	-	_		-	-			<u> </u>	-	
		-	-			-	-		-	-	
	-	-	-	_			-		<u>-</u>		
	-			-				35 dB(A) Leq (15 min) Day, Evening, Night		-	
N1		-	-		-				-	-	
	-	-	-			-		45dB(A) L₄ (1 min) Night	-	-	
		-	-				-	Nignt	-	-	
		-	-	-					-	-	
	-	-	-		-				-	-	
		-	-			-			-	-	
		-	-				-		-	-	
		-	-	-					-	-	
	-	-	-		-				-	-	
		-	-			-			-	-	
		-	-				-		-	-	
	-	-	-	-				35 dB(A) Leq (15 min)	-	-	
N2		-	-		-			Day, Evening, Night	-	-	
INZ	-	-	-			-		45dB(A) L _A (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	

-Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine



Rocglen Coal Mine- Monthly Monitoring Summary Table 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	4	99.6	111.0	120	No
BB1	Blast Vibration	mm/s	Every Blast	4	0.2	0.73	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	4	97.1	115.3	120	Yes
BB3	Blast Vibration	mm/s	Every Blast	4	0.3	0.94	10	No





Figure 1 – EPL 12870 Monitoring Locations



Site Information

EPL No: 12870

EPA Website Link: http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: December 2015 Publication Date: 14 January 2016

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
4	Particulates- Deposited Matter	g/m²/month	Continuous	1	21/12/15	30/12/15	-	-	-	1.6
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	21/12/15	30/12/15	-	-	-	0.8
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	21/12/15	30/12/15	-	-	-	0.4
10	PM ₁₀	μg/m³	Every 6 days	6	Various	11/01/16	2.5	13.8	12.05	26.7
11	Conductivity	μS/cm	Special	0			-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	1	_	-	-	-	-
12	Conductivity	μS /cm	Special	0			-	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	1	_	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	ı
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L		-	-	-	-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
14	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L	Special				-	-	-	-
	рН	рН	Frequency 2**				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Consist				-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	рН	рН	Trequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Max or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
	TSS	mg/L	Special				-	-	1	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	рН	рН	1*				-	-	1	-	
	TSS	mg/L	Special				-	-	1	-	
12	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	-
	рН	рН	1*				-	-	-	-	

^{*} Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

^{**} Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value/Only Value
	Aluminium	mg/L					-	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Voorb				-	-	-	-
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	0	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Period (mins)	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) L _{eq 15min Night}	Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed (m/s) /direction	Compliant (Y/N)	Comments
		1:27pm	15 min	<20					2.1/ 214	Υ	
		9:16pm	15 min		<20				1.2/ 332	Υ	
	7/12/15	11:18pm	15 min			<20			1.2/55	Υ	
		11:18pm	1 min				<20		1.2/55	Υ	
		9:15am	15 min	<20				35 dB(A) Leq (15 min)	1.3/ 212	Y	
N/A	0/42/45	9:03pm	15 min		<20			Day, Evening, Night	1.7/8	Υ	
N1	8/12/15	11:17pm	15 min			<20		45dB(A) L _A (1 min)	3.0/ 279	Υ	
		11:17pm	1 min				<20	Night	3.0/ 279	Υ	
		10:28am	15 min	<20					3.5/ 295	Υ	
	9/12/15	9:15pm	15 min		<20				2.5/ 46	Υ	
	9/12/15	11:16pm	15 min			<20			1.9/79	Υ	
		11:16pm	1 min				<20		1.9/79	Υ	
		11:41 am	15 min	<20					1.7/ 253	Υ	
	7/12/15	8:29pm	15 min		26				2.3/ 292	Υ	
	//12/13	10:02pm	15 min			28			1.0/30	Υ	
		10:02pm	1 min				35		1.0/30	Υ	
		9:11am	15 min	29				35 dB(A) Leq (15 min)	1.3/ 212	Υ	
N2	8/12/15	8:13pm	15 min		23			Day, Evening, Night	1.8/ 10	Υ	
112	0/12/13	10:00pm	15 min			32		45dB(A) L _A (1 min)	2.3/ 11	Υ	
		10:00pm	1 min				37	Night	2.3/ 11	Υ	
		8:42am	15 min	28					1.6/ 19	Y	
	9/12/15	8:29pm	15 min		26				2.3/51	Υ	
	<i>5</i> , 12, 13	10:00pm	15 min			30			2.7/ 18	Υ	
		10:00pm	1 min				39		2.7/ 18	Υ	

-Note: Measured noise levels refer to noise attributable to Rocglen Coal Mine



Rocglen Coal Mine- Monthly Monitoring Summary YTable 5 – Monitoring (Blasts – Limits Apply)

EPL ID	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance /breach
DD1	Blast Noise	dB (Lin Peak)	Every Blast	6	98.3	108.9	120	No
BB1	Blast Vibration	mm/s	Every Blast	6	0.12	0.26	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	6	96.5	105.7	120	No
BB3	Blast Vibration	mm/s	Every Blast	6	0.31	0.64	10	No





Figure 1 – EPL 12870 Monitoring Locations