

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: January 2017 Obtained Date: 14 February 2017 Publication Date: 21 February 2017

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	13/01/17	19/01/17	-	-	-	3.3
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	13/01/17	19/01/17	1	-	-	2.8
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	13/01/17	19/01/17	-	-	1	1.0
10	PM ₁₀	μg/m³	Every 6 days	5	Various	14/02/17	6.1	16.6	18.1	24.2
11	Conductivity	μS/cm	Special	0			1	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	0	-	-	-	-	-	-
12	Conductivity	μS /cm	Special	0						
12	Total organic carbon	mg/L	Frequency 1*	U	-	-				
	TSS	mg/L					1	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	_	-	-	-	-	-
	рН	рН					1	-	-	-
	Total organic carbon	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
	TSS	mg/L					-	-	-	
	Conductivity	μS/cm	Consist				-	-	-	
14	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
14	рН	рН	Trequency 2				-	-	-	
	Total organic carbon	mg/L					1	-	-	
	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	-	-	-	-	1	-	-
	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.



Rocglen Coal 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					1	1	-	-
	Arsenic	mg/L					1	ı	-	-
	Bicarbonate	mg/L	Voorb				1	•	-	-
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	-	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary

50 1	5.1.	C11	Desired.					y workering sum			Comments
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	L _{A 1min Night}				
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	
		-	-	-				35 dB(A) Leq (15 min)	-	-	
		-	-		-			Day, Evening, Night	-	-	
N1	-	-	-			-		45dB(A) L _A (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
		-	-		-				-	-	
	-	1	-			-			-	-	
		-	-				-		-	-	
		ı	-	-					-	-	-
		ı	-		-				-	-	
	-	-	-			-			-	-	
		ı	-				-		-	-	
		-	-	-				35 dB(A) Leq (15 min)	-	-	
N2	_	-	-		-			Day, Evening, Night	-	-	
142		-	-			-		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	101.9	113.5	120	No
DDI	Blast Vibration	mm/s	Every Blast	3	0.05	0.1	10	No
מחמ	Blast Noise	dB (Lin Peak)	Every Blast	2	102.2	111.9	120	No
BB3	Blast Vibration	mm/s	Every Blast	3	0.17	0.47	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 2017 Obtained Date: 8 March 2017 Publication Date: 20 March 2017

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	14/02/17	21/02/17	1	-	-	0.4
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	14/02/17	21/02/17	ı	-	-	1.3
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	14/02/17	21/02/17	-	-	-	0.4
10	PM ₁₀	μg/m³	Every 6 days	4	Various	8/03/17	16.0	22.6	22.2	30.2
11	Conductivity	μS/cm	Special	0			1	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	-	ı	-	-	-
12	Conductivity	μS /cm	Special	0			1	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	-	-	-	-	-	-
	TSS	mg/L					1	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					1	-	-	-
	Total organic carbon	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
	TSS	mg/L					-	-	-	
	Conductivity	μS/cm	Consist				-	-	-	
14	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
14	рН	рН	Trequency 2				-	-	-	
	Total organic carbon	mg/L					1	-	-	
	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	-	-	-	-	1	-	-
	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.



Rocglen Coal 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					ı	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Wa a ali				-	-	-	-
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	-	-	-	-	-	-	-
	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) Leq 15min Night	Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed (m/s) /direction	Compliant (Y/N)	Comments
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	
		-	-	-				35 dB(A) Leq (15 min)	-	-	
		-	-		-			Day, Evening, Night	-	-	
N1	-	-	-			-		45dB(A) L _A (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	ı	
		-	-	-					-	-	-
		-	-		-				-	ı	
	-	-	-			-			-	-	
		-	-				-		-	-	
		-	-	-				35 dB(A) Leq (15 min)	-	-	
N2	_	-	-		-			Day, Evening, Night	-	-	
142		-	-			-		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	6	99.2	105.5	120	No
PDI	Blast Vibration	mm/s	Every Blast	0	0.08	0.22	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	6	95.1	108.8	120	No
BB3	Blast Vibration	mm/s	Every Blast	6	0.24	0.71	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: March 2017 Obtained Date: 24th April 2017 Publication Date: 28th April 2017

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	17/03/17	28/03/17	-	-	-	0.9
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/03/17	28/03/17	-	-	-	0.8
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/03/17	28/03/17	-	-	-	0.7
10	PM ₁₀	μg/m³	Every 6 days	6	Various	12/04/17	6.2	8.3	7.2	14.7
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					-	-	-	-



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					-	-	-	
	Conductivity	μS/cm	Consist				-	-	-	
14	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
14	рН	рН	Frequency 2				-	-	-	
	Total organic carbon	mg/L					1	-	-	
	TSS	mg/L					-	-	-	
	Conductivity	μS /cm	Consist				-	-	-	
15	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
	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				-	-	-	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	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.



Rocglen Coal 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					1	1	-	-
	Arsenic	mg/L					1	ı	-	-
	Bicarbonate	mg/L	Voorb				1	•	-	-
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	-	-	-	-	-	-	-
	TOC	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-



Rocglen Coal Mine- Monthly Monitoring Summary

EPL	Date	Start	Period	Measured	Measured	Measured	Measured	Limits	Wind speed	Compliant	Comments
ID	Date	Time	(mins)	Levels –	Levels –	Levels –	Levels –	Lillits	(m/s)	(Y/N)	Comments
				dB(A)	dB(A)	dB(A)	dB(A)				
				Leq 15min Day	Leq 15min Evening	Leq 15min Night	L _{A 1min Night}				
		21:26	30		IA				4.7	NA	
	20/03/17	22:00	40			IA			3.7	NA	
		22:00	45				IA		3.7	NA	
	21/03/17	16:28	60	IA					3.1	NA	
	21/03/17	18:01	30		IA			35 dB(A) Leq (15 min)	6.1	NA	
N14	22/03/17	21:15	30		NM			Day, Evening, Night	2.5	Υ	
N1		16:22	60	IA				45dB(A) L _A (1 min)	1.8	Υ	
	23/03/17	23:01	45			IA		Night	1.9	Υ	
		23:01	45				IA		1.9	Υ	
		16:25	60	IA					3.1	NA	
	24/03/17	22:00	45			IA			3.5	NA	
		22:00	45				IA		3.5	NA	
		20:28	30		29				4.4	NA	
	20/03/17	23:21	30			32			3.5	NA	
		23:21	30				45		4.1	NA	
		14:37	60	NM					3.6	NA	
	21/03/17	00:08	30			34			4.3	NA	
		00:08	30				46	35 dB(A) Leq (15 min)	4.3	NA	
	22/03/17	20:25	30		IA			Day, Evening, Night	5.4	NA	
	22/22/47	14:36	60	IA				45dB(A) L _A (1 min)	2.7	Υ	
	23/03/17	18:09	30		IA			Night	2.4	Υ	
		14:38	60	IA					3.9	NA	
	24/03/17	00:20	40			34			1.1	Υ	
		00:20	40				43		1.1	Υ	
		23:16	60			39			2.6	N	
	25/03/17	23:16	60				NM		2.6	NA	

Note: Measured noise levels are not necessarily the result of activity at 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	92.1	112.9	120	No
PDI	Blast Vibration	mm/s	Every Blast	3	0.03	0.08	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	2	90.7	114.1	120	No
DB3	Blast Vibration	mm/s	Every Blast	3	0.07	0.2	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 2017 **Obtained Date:** 16 May 2017 **Publication Date:** 16 May 2017

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	18/04/17	28/04/17	1	-	-	0.5
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/04/17	28/04/17	-	-	-	0.4
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/04/17	28/04/17	-	-	-	0.4
10	PM ₁₀	μg/m³	Every 6 days	5	Various	16/5/2017	<0.01	3.0	1.4	12.5
11	Conductivity	μS/cm	Special	0			-	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	1	_	1	-	-	-
12	Conductivity	μS /cm	Special	0			ı	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	1	_	ı	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	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
	TSS	mg/L					-	-	-	
	Conductivity	μS/cm	C				-	-	-	
14	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
14	рН	рН	Trequency 2				-	-	-	
	Total organic carbon	mg/L					-	-	-	
	TSS	mg/L					-	-	-	
	Conductivity	μS /cm	C				-	-	-	
15	Oil & Grease	mg/L	Special Frequency 2**	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				-	-	ı	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	-	-	-
	рН	рН	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.



Rocglen Coal 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					-	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Va a wh				ı	-	-	-
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					ı	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	-	-	-	-	-	-	-
	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) L _{eq 15min Day}	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) L _{eq 15 min Night}	Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed (m/s)	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) Day, Evening, Night			
N2								45dB(A) L _A (1 min)			
								Night			

Note: Measured noise levels are not necessarily the result of activity at 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	96.4	108.8	120	No
PDI	Blast Vibration	mm/s	Every Blast	2	0.14	0.28	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	2	93.3	99.0	120	No
БВЗ	Blast Vibration	mm/s	Every Blast	2	0.64	1.27	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 2017 Obtained Date: 14 June 2017 Publication Date: 22 June 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	17/05/17	23/05/17	-	-	-	0.8
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/05/17	23/05/17	-	-	-	0.6
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/05/17	23/05/17	-	-	-	0.6
10	PM ₁₀	μg/m³	Every 6 days	5	Various	14/06/17	3.2	7.1	3.9	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					-	-	-	-



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					-	-	-	
	Conductivity	μS/cm	Consist				-	-	-	
14	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
14	рН	рН	Frequency 2				-	-	-	
	Total organic carbon	mg/L					1	-	-	
	TSS	mg/L					-	-	-	
	Conductivity	μS /cm	Consist				-	-	-	
15	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
	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				-	-	-	-	
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.



Rocglen Coal 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					1	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Va a ale c				-	-	-	-
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	-	-	-	-	-	-	-
	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)	Compliant (Y/N)	Comments
		16:36	90	26	-	-	-		1.5	Υ	
	22/05/17	21:02	30	-	IA	-	-		0	Υ	
	22/05/17	22:00	60	-	-	IA	-		1.7	Υ	
		22:00	60	-	-	-	IA		1.7	Υ	
		11:12	90	IA	-	-	-	35 dB(A) Leq (15 min)	1.8	Υ	
	23/05/17	20:11	30	-	IA	•	-	Day, Evening, Night	1	Υ	
N1	23/03/17	22:00	60	-	-	IA	-	45dB(A) L _A (1 min)	2.9	Υ	
		22:00	60	-	-	-	IA	Night	2.9	Υ	
		13:19	90	IA	-	-	-		4.1	NA	
	24/05/47	20:02	30	-	35	-	-		1.1	Y	
	24/05/17	22:00	60	-	-	34	-		2.7	Υ	
		22:00	60	-	-	-	38		3.1	NA	
		14:50	90	IA	-	-	-		1.7	Y	
	22/05/17	20:00	30	-	26	-	-		0	NA	
	22/05/17	23:20	60	-	-	34	-		0.7	Υ	
		23:20	60	-	-	-	37		0.0	NA	
		13:16	90	28	-	-	-	35 dB(A) Leq (15 min)	0.8	Υ	
N2	23/05/17	19:17	30	-	29	1	-	Day, Evening, Night	1.3	Υ	
INZ	23/03/17	23:21	60	-	-	39	-	45dB(A) L _A (1 min)	0.5	N*	
		23:21	60	-	-	•	47	Night	0.6	Υ	
		11:21	90	<20	-	-	-		3.8	NA	
	24/05/17	19:14	30	-	<20	-	-		0.7	Υ	
	24/05/17	23:18	60	-	-	30	-		2	Υ	
		23:18	60	-	-	-	30		2	Υ	

Note: Measured noise levels are not necessarily the result of activity at 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	93.7	101.4	120	No
PRI	Blast Vibration	mm/s	Every Blast	2	0.05	0.09	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	2	87.0	102.0	120	No
BB3	Blast Vibration	mm/s	Every Blast	2	0.24	0.47	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: June 2017 Obtained Date: 14th July 2017 Publication Date: 18th July 2017

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	16/06/17	26/06/17	-	-	-	0.7
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/06/17	26/06/17	-	-	-	0.6
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/06/17	26/06/17	-	-	-	0.5
10	PM ₁₀	μg/m³	Every 6 days	5	Various	17/07/17	4.2	8.8	7.4	14.4
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					-	-	-	-



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					-	-	-	
	Conductivity	μS/cm	Consist				-	-	-	
14	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
14	рН	рН	Frequency 2				-	-	-	
	Total organic carbon	mg/L					1	-	-	
	TSS	mg/L					-	-	-	
	Conductivity	μS /cm	Consist				-	-	-	
15	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
	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				-	-	-	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	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.



Rocglen Coal 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					ı	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Wa a ali				-	-	-	-
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	-	-	-	-	-	-	-
	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)	Compliant (Y/N)	Comments
		_	-	Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA 1min Night		-	-	
		-	-		-				-	-	
	-	<u>-</u>	-		-	-			-	-	
		-	-			-	-		-	-	
							-				
		-	-	-				35 dB(A) Leq (15 min) Day, Evening, Night	-	-	
N1	-	-	-		-			Day, Everillig, Night	-	-	
		-	-			-		45dB(A) L _A (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
	_	-	-		-				-	-	
		-	-			-			-	-	
		-	-				-		-	-	
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	
		-	-	-				35 dB(A) Leq (15 min)	-	-	
NO		-	-		-			Day, Evening, Night	-	-	
N2	-	-	-			-		45dB(A) L _A (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	

Note: Measured noise levels are not necessarily the result of activity at 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	96.8	113.1	120	No
PRI	Blast Vibration	mm/s	Every Blast	3	0.12	0.31	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	2	105.3	108.0	120	No
BB3	Blast Vibration	mm/s	Every Blast	3	0.37	1.04	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: July 2017 **Obtained Date:** 15th August 2017 **Publication Date:** 28th August 2017

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	18/07/17	27/07/17	-	-	-	3.5
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/07/17	27/07/17	-	-	-	0.6
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/07/17	27/07/17	-	-	-	0.3
10	PM ₁₀	μg/m³	Every 6 days	5	Various	15/08/17	4.0	6.04	5.6	9.8
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					-	-	-	-



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					-	-	-	
	Conductivity	μS/cm	Consist				-	-	-	
14	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
14	рН	рН	Trequency 2				-	-	-	
	Total organic carbon	mg/L					1	-	-	
	TSS	mg/L					-	-	-	
	Conductivity	μS /cm	Consist				-	-	-	
15	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
	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				-	-	-	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	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.



Rocglen Coal 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					ı	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Wa a ali				-	-	-	-
16	Chloride	mg/L	Yearly	-	-	-	-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
	Conductivity	μS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
16	рН	рН	Quarterly	-	-	-	-	-	-	-
	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)	Compliant (Y/N)	Comments
		_	-	Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA 1min Night		-	-	
		-	-		-				-	-	
	-	<u>-</u>	-		-	-			-	-	
		-	-			-	-		-	-	
							-				
		-	-	-				35 dB(A) Leq (15 min) Day, Evening, Night	-	-	
N1	-	-	-		-			Day, Everillig, Night	-	-	
		-	-			-		45dB(A) L _A (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
	_	-	-		-				-	-	
		-	-			-			-	-	
		-	-				-		-	-	
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	
		-	-	-				35 dB(A) Leq (15 min)	-	-	
NO		-	-		-			Day, Evening, Night	-	-	
N2	-	-	-			-		45dB(A) L _A (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	

Note: Measured noise levels are not necessarily the result of activity at 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	E	102.9	110.3	120	No
PPI	Blast Vibration	mm/s	Every Blast	5	0.18	0.26	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	F	103.4	117.4	120	Yes
BB3	Blast Vibration	mm/s	Every Blast)	0.56	1.25	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 2017

Obtained Date: 15th September 2017 **Publication Date:** 21st September 2017

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	17/08/17	28/08/17	1	-	-	0.5
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/08/17	28/08/17	ı	-	-	0.2
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	17/08/17	28/08/17	-	-	-	0.3
10	PM ₁₀	μg/m³	Every 6 days	5	Various	15/08/17	5.2	14.3	11.7	22.5
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					-	-	-	-



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					-	-	-	
	Conductivity	μS/cm	Consist				-	-	-	
14	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
14	рН	рН	Trequency 2				-	-	-	
	Total organic carbon	mg/L					1	-	-	
	TSS	mg/L					-	-	-	
	Conductivity	μS /cm	Consist				-	-	-	
15	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
	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				-	-	-	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	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.



Rocglen Coal 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					1	1	-	
	Arsenic	mg/L					-	-	-	
	Bicarbonate	mg/L	Wa a ali				-	-	-	
16	Chloride	mg/L	Yearly	0	-	-	-	-	-	
	Iron	mg/L					-	-	-	
	Manganese	mg/L					-	-	-	
	Sodium	mg/L					-	-	-	
	Conductivity	μS/cm					-	-	-	1140
	Oil & Grease	mg/L					-	-	-	<5
16	рН	рН	Quarterly	1	10/08/17	17/08/17	-	-	-	9.4
	TOC	mg/L					-	-	-	4
	TSS	mg/L					-	-	-	8



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)	Compliant (Y/N)	Comments
				Leq 15min Day	Leq 15min Evening	Leq 15min Night	LA 1min Night				
		16:27	90	IA					0.6	Υ	
	14/08/17	21:31	30		<20				0.2	Υ	
	11,00,17	22:01	60			<20			0.4	Υ	
		22:01	60				<20		0.4	Υ	
		11:52	90	IA				35 dB(A) Leq (15 min)	1.8	Υ	
N1	15/08/17	20:28	30		IA			Day, Evening, Night	4.9	NA	
INI	13/08/17	22:00	60			IA		45dB(A) L _A (1 min)	5.0	NA	
		22:00	60				IA	Night	5.0	NA	
		13:56	90	IA					NA	Υ	
	16/08/17 -	20:09	30		<20				2.8	Υ	
	17/08/16	22:00	60			IA			2.1	Υ	2 noise exceedances recorded during
		22:00	60				IA		2.1	Υ	quarterly monitoring. Reported to
		14:40	90	IA					1.1	Υ	EPA as per requirements of EPL
	4.4/00/47	20:31	30		39				0.2	N	12870.
	14/08/17	23:18	60			30			0.0	Υ	
		23:18	60				NM		0.3	Υ	
		13:48	90	29				35 dB(A) Leq (15 min)	0.9	Υ	
N2	15/08/17 –	19:39	30		<30			Day, Evening, Night	4.5	NA	
IN2	16/08/17	23:18	60			35		45dB(A) L _A (1 min)	2.5	N	
		23:18	60				45	Night	2.5	Υ	
		12:04	90	15					4.6	NA	
	16/08/17 -	19:19	30		23				1.7	Υ	
	17/08/16	23:15	60			23			1.2	Υ	
		23:15	60				27		1.7	Υ	

Note: Measured noise levels are not necessarily the result of activity at 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	2	101.2	108.5	120	No
BB1	Blast Vibration	mm/s	Every Blast	2	0.22	0.26	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	2	104.7	102.7	120	No
BB3	Blast Vibration	mm/s	Every Blast	2	0.45	0.66	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 2017 Obtained Date: 11th October 2017 Publication Date: 24th October 2017

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	18/09/17	27/09/17	-	-	-	1
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/09/17	27/09/17	-	-	-	1.3
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	18/09/17	27/09/17	-	-	-	0.9
10	PM ₁₀	μg/m³	Every 6 days	5	Various	11/10/17	8.9	19.8	19.8	35.2
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*	0	-	-	-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					-	-	-	-
	Total organic carbon	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
	TSS	mg/L					-	-	-	
	Conductivity	μS/cm	Consist				-	-	-	
14	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
14	рН	рН	Frequency 2				-	-	-	
	Total organic carbon	mg/L					1	-	-	
	TSS	mg/L					-	-	-	
	Conductivity	μS /cm	Consist				-	-	-	
15	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
	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				-	-	-	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	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.



Rocglen Coal 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					1	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Wa a ali				-	-	-	-
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) Leq 15min Night	Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
		-	-		Led 15min Evening	Led 15min Night	EA Imin Night		-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	
		-	-	-				35 dB(A) Leq (15 min)	-	-	
		-	-		-			Day, Evening, Night	-	-	
N1	-	-	-			-		45dB(A) L₄ (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	
		-	-	-					-	-	-
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	1				-		-	-	
		-	-	-				35 dB(A) Leq (15 min)	-	-	
N2	_	-	-		-			Day, Evening, Night	-	-	
INZ		-	-			-		45dB(A) L _A (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
	_	-	-		-				-	-	
		-	-			-			-	-	
		-	-				-		-	-	

Note: Measured noise levels are not necessarily the result of activity at 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	2	98.6	105.3	120	No
BB1	Blast Vibration	mm/s	Every Blast	3	0.16	0.22	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	2	99.9	103.4	120	No
BB3	Blast Vibration	mm/s	Every Blast	3	0.5	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: October 2017 Obtained Date: 9th November 2017 Publication Date: 17th November 2017

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	18-10-17	26-10-17	1	-	-	1.1
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	18-10-17	26-10-17	ı	-	-	1.2
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	18-10-17	29-10-17	-	-	-	1.2
10	PM ₁₀	μg/m³	Every 6 days	5	Various	9-11-17	<0.1	4.7	4.7	7.5
11	Conductivity	μS/cm	Special	0			1	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	U	-	-	ı	-	-	-
12	Conductivity	μS /cm	Special	0			1	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	U	-	-	-	-	-	-
	TSS	mg/L					1	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	0	-	-	-	-	-	-
	рН	рН					1	-	-	-
	Total organic carbon	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
	TSS	mg/L					-	-	-	
	Conductivity	μS/cm	Consist				-	-	-	
14	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
14	рН	рН	Frequency 2				-	-	-	
	Total organic carbon	mg/L					1	-	-	
	TSS	mg/L					-	-	-	
	Conductivity	μS /cm	Consist				-	-	-	
15	Oil & Grease	mg/L	Special Frequency 2**	0			-	-	-	
	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				-	-	-	-	
11	Oil & Grease	mg/L	Frequency	0	-	-	-	-	1	-	-
	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.



Rocglen Coal 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					1	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Wa a ali				-	-	-	-
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) Leq 15min Night	Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
		-	-		Led 15min Evening	Led 15min Night	EA Imin Night		-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	
		-	-	-				35 dB(A) Leq (15 min)	-	-	
		-	-		-			Day, Evening, Night	-	-	
N1	-	-	-			-		45dB(A) L₄ (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	-				-		-	-	
		-	-	-					-	-	-
		-	-		-				-	-	
	-	-	-			-			-	-	
		-	ı				-		-	-	
		-	-	-				35 dB(A) Leq (15 min)	-	-	
N2	_	-	-		-			Day, Evening, Night	-	-	
INZ		-	-			-		45dB(A) L _A (1 min)	-	-	
		-	-				-	Night	-	-	
		-	-	-					-	-	
	_	-	-		-				-	-	
		-	-			-			-	-	
		-	-				-		-	-	

Note: Measured noise levels are not necessarily the result of activity at 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	95.9	120	No
PDI	Blast Vibration	mm/s	Every Blast	1	-	0.13	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	1	-	101.4	120	No
BB3	Blast Vibration	mm/s	Every Blast	1	1	0.6	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 2017 Obtained Date: 11th December 2017 Publication Date: 14th December 2017

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	16/11/17	24/11/17	-	-	-	0.8
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/11/17	24/11/17	ı	-	-	2.2
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	16/11/17	24/11/17	-	-	-	31.4
10	PM ₁₀	μg/m³	Every 6 days	5	Various	11/12/17	2.3	8.6	8.5	17.8
11	Conductivity	μS/cm	Special	1	20/11/17	27/11/17	1	-	-	411
11	Total organic carbon	mg/L	Frequency 1*	1	20/11/17	2//11/1/	-	-	-	11
12	Conductivity	μS /cm	Special	1	20/11/17	27/11/17	-	-	-	229
12	Total organic carbon	mg/L	Frequency 1*	1	20/11/17	2//11/1/	-	-	-	9
	TSS	mg/L					-	-	-	34
	Conductivity	μS/cm	Special				-	-	-	144
13	Oil & Grease	mg/L	Frequency 2**	1	20/11/17	27/11/17	-	-	-	<5
	рН	рН					-	-	-	7.10
	Total organic carbon	mg/L					-	-	-	38



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					-	-	-	162
	Conductivity	μS/cm	Consist				-	-	-	326
14	Oil & Grease	mg/L	Special Frequency 2**	1	20/11/17	27/11/17	-	-	-	<5
14	рН	рН	Frequency 2				-	-	-	7.40
	Total organic carbon	mg/L					-	-	-	30
	TSS	mg/L					-	-	-	26
	Conductivity	μS /cm	Constal				-	-	-	292
15	Oil & Grease	mg/L	Special Frequency 2**	1	20/11/17	27/11/17	-	-	-	<5
	рН	рН	Frequency 2				-	-	-	7.63
	Total organic carbon	mg/L					-	-	-	19

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				-	256	50	Yes	
11	Oil & Grease	mg/L	Frequency	1	20/11/17	27/11/17	-	<5	10	No	
	рН	рН	1*				-	7.9	6.5-8.5	No	
	TSS	mg/L	Special				-	254	50	Yes	
12	Oil & Grease	mg/L	Frequency	1	20/11/17	27/11/17	-	<5	10	No	
	рН	рН	1*				-	7.6	6.5-8.5	No	

^{*} 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.



Rocglen Coal 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					1	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Wa a ali				-	-	-	-
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)	Rocglen Measured Levels – dB(A) Leq 15min Day	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) L _{eq 15min Night}	Rocglen Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
		16:27	90	NM					3.0	Υ	
	13/11/17	18:00	30		NM				1.9	Υ	
	13/11/17	22:00	60			IA			4.2	NA	
		22:00	60				IA		4.2	NA	
		12:39	90	NM				35 dB(A) Leq (15 min)	1.3	Υ	
NA	14/11/17	20:46	30		IA			Day, Evening, Night	3.5	NA	
N1	14/11/17	22:00	60			IA		45dB(A) L _A (1 min)	2.4	Υ	
		22:00	60				IA	Night	2.4	Υ	
		12:31	90	IA					2.9	Υ	
	15/11/17	21:08	30		IA				2.5	Υ	
	15/11/17	22:00	60			<25			2.3	Υ	
		22:00	60				<25		2.3	Υ	
		14:40	90	<20					1.6	Υ	
	13/11/17	18:55	30		IA				4.1	NA	
	13/11/17	23:23	60			<30			3.0	Υ	
		23:23	60				30		3.0	Υ	
		14:27	90	NM				35 dB(A) Leq (15 min)	0.7	Υ	
N2	14/11/17	19:55	30		IA			Day, Evening, Night	3.8	NA	
INZ	14/11/17	23:21	60			NM		45dB(A) L _A (1 min)	2.4	Υ	
		23:21	60				NM	Night	2.4	Υ	
		14:24	90	IA					1.2	Υ	
	15/11/17-	20:22	30		<25				1.2	Υ	
	16/11/17	23:25	60			<25			2.4	Υ	
		23:25	60				<25		2.4	Υ	

Note: Measured noise levels are not necessarily the result of activity at 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	99.1	103.4	120	No
BB1	Blast Vibration	mm/s	Every Blast	4	0.31	0.93	10	No
DDO	Blast Noise	dB (Lin Peak)	Every Blast	4	96.5	102.7	120	No
BB3	Blast Vibration	mm/s	Every Blast	4	0.2	0.48	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 2017 Obtained Date: 16th January 2018 Publication Date: 16th January 2018

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	15/12/17	16/01/18	1	-	-	1.7
6	Particulates- Deposited Matter	g/m²/month	Continuous	1	15/12/17	16/01/18	ı	-	-	1.6
7	Particulates- Deposited Matter	g/m²/month	Continuous	1	15/12/17	16/01/18	-	-	-	1.4
10	PM ₁₀	μg/m³	Every 6 days	5	Various	5/01/18	7.4	16.3	11.2	29.0
11	Conductivity	μS/cm	Special	1			1	-	-	-
11	Total organic carbon	mg/L	Frequency 1*	1	-	-	ı	-	-	-
12	Conductivity	μS /cm	Special	1			1	-	-	-
12	Total organic carbon	mg/L	Frequency 1*	1	-	-	-	-	-	-
	TSS	mg/L					1	-	-	-
	Conductivity	μS/cm	Special				-	-	-	-
13	Oil & Grease	mg/L	Frequency 2**	1	-	-	-	-	-	-
	рН	рН					1	-	-	
	Total organic carbon	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
	TSS	mg/L					-	-	-	-
	Conductivity	μS/cm	Carriel				-	-	-	-
14	Oil & Grease	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
14	рН	рН	Frequency 2				-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
	TSS	mg/L					-	-	-	-
	Conductivity	μS /cm	Caratal				-	-	-	-
15	Oil & Grease	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	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				-	-	50	Yes	
11	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	No	-
	рН	рН	1*				-	-	6.5-8.5	No	
	TSS	mg/L	Special				-	-	50	Yes	
12	Oil & Grease	mg/L	Frequency	-	-	-	-	-	10	No	-
	рН	рН	1*				-	-	6.5-8.5	No	

^{*} 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.



Rocglen Coal 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					1	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L	Wa a ali				-	-	-	-
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)	Rocglen Measured Levels – dB(A) L _{eq 15min Day}	Rocglen Measured Levels – dB(A) Leq 15min Evening	Rocglen Measured Levels – dB(A) Leq 15min Night	Rocglen Measured Levels – dB(A) L _{A 1min Night}	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
		-	90				3		-	-	
		-	30						-	-	
	-	-	60						-	-	
		1	60						-	1	
		-	90					35 dB(A) Leq (15 min)	-	-	
NIA		-	30					Day, Evening, Night	-	-	
N1	-	-	60					45dB(A) L _A (1 min)	-	-	
		-	60					Night	-	-	
		1	90						-	-	
		1	30						-	-	
	-	1	60						-	1	
		-	60						-	-	
		1	90						-	-	
	_	ı	30						-	ı	
	-	1	60						-	1	
		-	60						-	-	
		-	90					35 dB(A) Leq (15 min)	-	-	
N2	_	-	30					Day, Evening, Night	-	-	
IVZ		-	60					45dB(A) L _A (1 min)	-	-	
		-	60					Night	-	-	
		-	90						-	-	
	_	-	30						-	-	
	-	-	60						-	-	
		-	60						-	-	

Note: Measured noise levels are not necessarily the result of activity at 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	0	1	-	120	-
BB1	Blast Vibration	mm/s	Every Blast	U	-	-	10	-
DDO	Blast Noise	dB (Lin Peak)	Every Blast	0	-	-	120	-
BB3	Blast Vibration	mm/s	Every Blast	U		-	10	-





Figure 1 – EPL 12870 Monitoring Locations