



## Rocglen Coal 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:** February 2019

**Obtained Date:** 22 March 2019

**Publication Date:** 22 March 2019

**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/m <sup>2</sup> /month	Continuous	1	14/02/19	6/03/19	-	-	-	1.4
6	Particulates-Deposited Matter	g/m <sup>2</sup> /month	Continuous	1	14/02/19	6/03/18	-	-	-	1.1
10	PM <sub>10</sub>	µg/m <sup>3</sup>	Every 6 days	3	Various	4/03/19	23.7	101	80.9	201
11	Conductivity	µS/cm	Special Frequency 1*	-	-	-	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
12	Conductivity	µS/cm	Special Frequency 1*	-	-	-	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
13	TSS	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	Conductivity	µS/cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
	pH	pH					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
14	TSS	mg/L		-	-	-	-	-	-	-
	Conductivity	µS/cm					-	-	-	-



# WHITEHAVEN COAL

## Rocgen 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
	Oil & Grease	mg/L	Special Frequency 2**				-	-	-	-
	pH	pH					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
15	TSS	mg/L	Special Frequency 2**	1	-	-	-	-	-	-
	Conductivity	µS /cm					-	-	-	-
	Oil & Grease	mg/L					-	-	-	-
	pH	pH					-	-	-	-
	Total organic carbon	mg/L					-	-	-	-

<sup>1</sup>result caused by a regional dust event, not mine related.

**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
11	TSS	mg/L	Special Frequency 1*	-	-	-	-	-	50	-	
	Oil & Grease	mg/L					-	-	10	-	
	pH	pH					-	-	6.5-8.5	-	
12	TSS	mg/L	Special Frequency 1*	-	-	-	-	-	50	-	
	Oil & Grease	mg/L					-	-	10	-	
	pH	pH					-	-	6.5-8.5	-	

\* 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.



## Rocgen 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
16	Aluminium	mg/L	Yearly	-	-	-	-	-	-	-
	Arsenic	mg/L					-	-	-	-
	Bicarbonate	mg/L					-	-	-	-
	Chloride	mg/L					-	-	-	-
	Iron	mg/L					-	-	-	-
	Manganese	mg/L					-	-	-	-
	Sodium	mg/L					-	-	-	-
16	Conductivity	µS/cm	Quarterly	1	21/02/2019	-	-	-	-	5040
	Oil & Grease	mg/L					-	-	-	<5
	pH	pH					-	-	-	8.95
	TOC	mg/L					-	-	-	12
	TSS	mg/L					-	-	-	62



## 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) Leq 15min Night	Rocglen Measured Levels – dB(A) LA 1min Night	Limits	Wind speed (m/s)	Compliant (Y/N)	Comments
N1	19/02/19	15:03	90	I/A				35 dB(A) Leq (15 min) Day, Evening, Night  45dB(A) L <sub>A</sub> (1 min) Night	3 m/s NW	Y	Inaudible
		20:38	30		I/A				1.5 m/s NE	Y	Inaudible
		23:24	60			24			5 m/s S	Y	Barely audible Engine noise 24-26
		23:24	60				24		5 m/s S	Y	
	20/02/19	11:37	90	I/A					3 m/s SW	Y	Inaudible
		20:24	30		<25				6 m/s S	Y	Intermittently audible
		00:10	60			I/A			4.5 m/s S	Y	Truck noise 28-31
		00:10	60				I/A		4.5 m/s S	Y	Inaudible
	21/02/19	11:00	90	I/A					4 m/s SE	Y	Inaudible
		20:53	30		I/A				8 m/s SE	Y	Inaudible
		23: 35	60			I/A			3.5 m/s SE	Y	
		23: 35	60				I/A		3.5 m/s SE	Y	Inaudible Inaudible
N2	19/02/19	13:07	90	I/A				2.5 m/s NW	Y	Not Measureable	
		19:46	30		I/A			1.5 m/s NW	Y	Audible Engine noise 22-28	
		22:01	60			28		2 m/s SE	Y		
		22:01	60				24	2 m/s SE	Y	Barely audible Engine noise 24 Not Measureable	
	20/02/19	09:39	90	N/M				2.2 m/s SW	Y	Audible Engine noise 22-28	
		20:01	30		I/A			6 m/s SE	Y		
		22:53	60			I/A		2 m/s SE	Y	Inaudible	
		22:53	60				I/A	2 m/s SE	Y	Barely audible Engine noise 24	
	21/02/19	09:39	90	N/M				2.2 m/s SW	Y	Not Measureable	
		20:01	30		I/A			6 m/s SE	Y	Inaudible	
		22:53	60			I/A		2 m/s SE	Y		
		- 22:53	60				I/A	2 m/s SE	Y	Inaudible Inaudible	

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine



# WHITEHAVEN COAL

## Rocgen 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	95.6	120	No
	Blast Vibration	mm/s	Every Blast		0.2	0.27	10	No
BB3	Blast Noise	dB (Lin Peak)	Every Blast	2	96.2	103.3	120	No
	Blast Vibration	mm/s	Every Blast		0.57	0.67	10	No



## Rocgen Coal Mine- Monthly Monitoring Summary



Figure 1 – EPL 12870 Monitoring Locations