

Site:	Chain Valley Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Report - March 2018
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**CVC Monthly Environmental Report** 

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### Introduction

LakeCoal Pty Ltd (LakeCoal) operates the Chain Valley Colliery, an underground coal mine at the southern end of Lake Macquarie.

Chain Valley Colliery operates under the following regulatory instruments;

- A Development Consent, SSD-5465 (as modified) issued under the Environmental Planning and Assessment Act, 1979.
- An Environment Protection Licence (1770) issued under the Protection of the Environment Operations Act, 1997.
- A groundwater bore licence (20BL173107) issued under the Water Act, 1912.

The above development consent/approval and licences require various monitoring and reporting to be undertaken by LakeCoal for Chain Valley Colliery.

This report provides environmental monitoring data from Chain Valley Colliery for the period 1 March 2018 to 31 March 2018.

Details of the Chain Valley Colliery EPL 1770 are provided below.

Chain Valley Colliery Information		
Premises name	Chain Valley Colliery	
Address	Construction Road, Chain Valley Bay, NSW, 2259	
Licensee	LakeCoal Pty Ltd	
EPL#	1770	
EPL location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50980&SYS UID=1&LICID=1770	

The overall purpose of this report is to keep stakeholders informed of the environmental monitoring results at Chain Valley Colliery and maintain a transparent and accountable reporting system.



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### Scope

This report presents the results from the various environmental monitoring programs undertaken for Chain Valley Colliery.

Results in this report are typically only a single month of data, which is due to a legislative requirement introduced by the *Protection of the Environment Legislation Amendment Act 2011*, which requires publishing data publically within 14 days. As LakeCoal is required to undertake monitoring on a monthly basis, each report generally cover a single month of environmental monitoring data.

Where applicable, the results of the monitoring programs are compared with the relevant criteria (from the EPL or Development Consent) to determine compliance.

Monitoring results presented include;

- Water quality
- Water volume
- Depositional dust
- Operational noise
- Weather data

### **Definitions**

dB- decibels

dB(A) – noise level measurement units are decibels (dB). The A-weighting scale is used to approximate human perception of noise

g/m<sup>2</sup>/month – grams per square metre per month

kL- kilolitres

L<sub>Aeq</sub>-the average A-weighted noise energy (in dB) for a measurement period

mg/L – milligrams per litre

μg/L – micrograms per litre

μS/cm – microSiemens per centimetre



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### References

ALS Group - Monthly Water Monitoring Results March 2018 – (Work Order ES1808791)

ALS Water - Report of Analysis (WN1801297)

Steel River Testing - Dust Deposition Report March 2018 (Report 15595-0)

Development Consent SSD-5465 (as modified)

Environment Protection Licence 1770 (Licence version date: 8 June 2016)

### **Monitoring Results**

Water – Quality

March 2018		
EPL	1770	
Licensee	LakeCoal Pty Ltd	
Premises	Chain Valley Colliery	
Date Sampled	23-Mar-18	
Date Obtained	03-Apr-18	
Date Reported	Refer report date	
Sampling Point	1	

Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L	-	<2
Enterococci	col/100mL	-	110
Faecal Coliforms	CFU/100mL	200	60
pH	pH	6.5-8.5	7.90
Total Sus. Solids	mg/L	50	11

There was no exceedance of water quality criteria during the month.



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### Water - Volume

	March 2018	
EPL	1770	·
Licensee	LakeCoal Pty Ltd	
Premises	Chain Valley Colliery	
Date Sampled	Daily	
Date Reported	Refer report date	
Discharge volume limit	12161 kilolitres per day	
Sampling Point	1	

Date (24 hour period)	Unit	Volume
01/03/2017	kL	6206.6
02/03/2017	kL	5916.3
03/03/2017	kL	6005.8
04/03/2017	kL	6252.5
05/03/2017	kL	6325.4
06/03/2017	kL	6795.2
07/03/2017	kL	6566.4
08/03/2017	kL	6160.6
09/03/2017	kL	6156.8
10/03/2017	kL	5998.9
11/03/2017	kL	6104.3
12/03/2017	kL	6116.7
13/03/2017	kL	6215.4
14/03/2017	kL	6140.9
15/03/2017	kL	6096.2
16/03/2017	kL	6106.6
17/03/2017	kL	6109.4
18/03/2017	kL	6090.9
19/03/2017	kL	6093.5
20/03/2017	kL	5881.6
21/03/2017	kL	1260.6
22/03/2017	kL	1759.4
23/03/2017	kL	5527.9
24/03/2017	kL	6188.8
25/03/2017	kL	6108.4
26/03/2017	kL	6226.4
27/03/2017	kL	6145.1
28/03/2017	kL	6242.2
29/03/2017	kL	6249.1
30/03/2017	kL	6281.6
31/03/2017	kL	5983.2

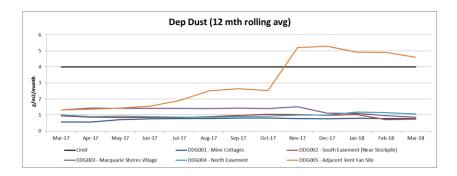
There were no exceedances of the volumetric limits at the Licenced Discharge Point during the month.



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### **Depositional Dust**

March 2018			
Sampling Date	14/02/2018 to	16/03/2018	
Site	Insoluble Matter (g/m	2/month)	
DDG001	0.5		
DDG002	0.7		
DDG003	0.7		
DDG004	0.7		
DDG005	1.2		
Notes:			



There were no exceedances of the annual average air quality limits during the reporting period.

#### **Operational Noise**

There were no exceedances of the sites noise monitoring criteria during the month. Current awaiting final report for March. Will update report once results are received.

### Weather Data

A summary of weather data recorded by an adjacent site meteorological monitoring station at the Colliery is presented below for the year to date.



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Monthly Weather Data			
2018			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Location	W1 (on-site weather station)		
Date published:	Refer report date		
Date sampled:	Daily		
Date obtained:	15/04/2018		
		Minimum	Maximum
Month	Total Rainfall / Month (mm)		Temperature (oC)
Jan-18	23.4	13.8	42.5
Feb-18			
	124.2	14.1	38
Mar-18	55.6	10.5	38.1
Apr-18			
May-18			
Jun-18			
Jul-18			
Jul-18 Aug-18			
Aug-18			
Aug-18 Sep-18			