Lake Coal

Report

Site:	Chain Valley Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Report - June 2017
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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 June 2017 to 30 June 2017.

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/m²/month – grams per square metre per month

kL- kilolitres

L_{Aeq}—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 June 2017 - Work Order ES1715081)

ALS Water - Report of Analysis (WN1702671)

Steel River Testing - Dust Deposition Report June 2017 (Report 13774-0)

Development Consent SSD-5465 (as modified)

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

Monitoring Results

Water – Quality

June 2017			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	07-Jun-17		
Date Obtained	10-Jun-17		
Date Reported	Refer report date		
Sampling Point	1		

Parameter	Units	Limit	Result
Biochem. Oxygen Dema	mg/L	-	3
Enterococci	col/100mL	-	17
Faecal Coliforms	CFU/100mL	200	170
pН	рН	6.5-8.5	7.69
Total Sus. Solids	mg/L	50	14

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



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Water – Volume

	June 2017		
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	Daily		
Date Reported	Refer report date)	
Discharge volume limit	12161 kilolitres	oer day	
Sampling Point	1		
Date (24 hour period)	Unit	Volume	
01/06/2017	kL	7275	
02/06/2017	kL	7316	
03/06/2017	kL	7097	
04/06/2017	kL	6190	
05/06/2017	kL	6981	
06/06/2017	kL	7123	
07/06/2017	kL	9176	
08/06/2017	kL	2384	
09/06/2017	kL	1736	
10/06/2017	kL	6330	
11/06/2017	kL	6067	
12/06/2017	kL	489	
13/06/2017	kL	4257	
14/06/2017	kL	6581	
15/06/2017	kL	6454	
16/06/2017	kL	6491	
17/06/2017	kL	6330	
18/06/2017	kL	7430	
19/06/2017	kL	6960	
20/06/2017	kL	6514	
21/06/2017	kL	5038	
22/06/2017	kL	5113	
23/06/2017	kL	5416	
24/06/2017	kL	5776	
25/06/2017	kL	6681	
26/06/2017	kL	6927	
27/06/2017	kL	6989	
28/06/2017	kL	6990	
29/06/2017	kL	6927	
30/06/2017	kL	4079	

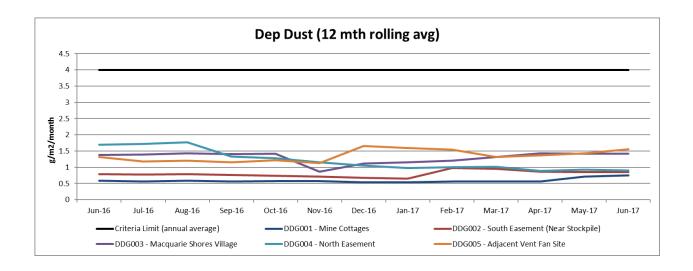
There were no exceedances of the volumetric limits at the Licenced Discharge Point during the month.



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Depositional Dust

June 2017			
Sampling Date	13/05/2017	to	12/06/2017
	T		
Site	Insoluble Matter (g	g/m2/mont	h)
DDG001	0.8		
DDG002	0.6		
DDG003	0.6		
DDG004	1.0		
DDG005	1.9		
Natar			
Notes:			
- For site locations	refer to Air Quality Ma	nagement I	Plan



Operational Noise

Attended noise monitoring has been completed in June, however the reports are yet to be finalised. The results will be published in the next monthly report.



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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.

Monthly Weather Data			
2016/17			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Col	liery	
Location	W1 (on-site weather station)		
Date published:	Refer report da	ite	
Date sampled:	Daily		
Date obtained:	11/07/2017		
Month	Total Rainfall /	Minimum	Maximum
	Month (mm)	Temperature (°C)	Temperature
			(°C)
Feb-16	17.4	16.4	37.7
Mar-16	92.2	14.3	30.1
Apr-16	36.2	12.1	33.5
May-16	46.6	5.3	27.8
Jun-16	248.2	3.4	21.4
Jul-16	73.2	2.5	25
Aug-16	115	4.5	24.3
Sep-16	68	7.4	24.2
Oct-16	61	7.3	33.3
Nov-16	46.8	10.9	35.2
Dec-16	85.2	14.5	38.9
Jan-17	68.6	17.4	40.1
Feb-17	141.2	13.1	39
Mar-17	404	14.5	31.9
Apr-17	85.6	17.4	24.8
May-17	34.8	11.5	24.8
Jun-17	169.2	5.1	19.9