

Report

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



Table of Contents

Introduction		3
References		5
Monitoring Res	sults	5
٧	Water – Quality	5
V	Water – Volume	6
	Depositional Dust	
C	Operational Noise	7
V	Weather Data	7



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 April 2018 to 30 April 2018.

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	

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

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.



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

 μ S/cm – microSiemens per centimetre



References

ALS Group - Monthly Water Monitoring Results April 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

	April 2018		
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	18-Apr-18		
Date Obtained	26-Apr-18		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L	-	<2
Enterococci	col/100mL	-	23
	OF LUCIDO L	200	18
Faecal Coliforms	CFU/100mL	200	
Faecal Coliforms pH	pH	6.5-8.5	7.56

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



Water – Volume

	April 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
01/04/2018	kL	6281.0
02/04/2018	kL	4087.
03/04/2018	kL	45.
04/04/2018	kL	290
05/04/2018	kL	5413.
06/04/2018	kL	6100.
07/04/2018	kL	6216.
08/04/2018	kL	6422.
09/04/2018	kL	6429.
10/04/2018	kL	6341.
11/04/2018	kL	6303.
12/04/2018	kL	6293.
13/04/2018	kL	6288.
14/04/2018	kL	6301.
15/04/2018	kL	6346.
16/04/2018	kL	6351.
17/04/2018	kL	6374.
18/04/2018	kL	7892
19/04/2018	kL	8273.
20/04/2018	kL	6287.
21/04/2018	kL	7218.
22/04/2018	kL	7450.
23/04/2018	kL	6393.
24/04/2018	kL	7170.1
25/04/2018	kL	5577
26/04/2018	kL	4252.
27/04/2018	kL	7560.
28/04/2018	kL	7196
29/04/2018	kL	7550.
30/04/2018	kL	7378.

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

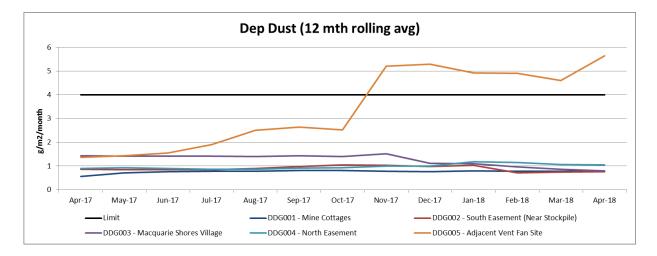
Depositional Dust

Sampling Date	16/03/2018 to	13/04/2018
Site	Insoluble Matter (g/m2/month)	
DDG001	0.6	
DDG002	0.6	
DDG003	0.8	
DDG004	0.8	
DDG005	13.5	

Report



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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.

Monthly Weather Data			
2018			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Location	W1 (on-site weather stati	on)	
Date published:	Refer report date		
Date sampled:	Daily		
Date obtained:	15/04/2018		
	Total Rainfall / Month	Minimum	Maximum
Month	(mm)	Temperature (oC)	Temperature (oC)
Jan-18			42.5
Feb-18		14.1	38
Mar-18			38.1
Apr-18	70.6	11.7	33.8
Apr-18 May-18		11.7	33.8
		11.7	33.8
May-18		11.7	33.8
May-18 Jun-18		11.7	33.8
May-18 Jun-18 Jul-18		11.7	33.8