

Report

Site:	Chain Valley Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Website Report - October 2018
Prepared by:	Wade Covey
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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 October 2018 to 31 October 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 October 2018

ALS Water - Report of Analysis

Steel River Testing - Dust Deposition Report October 2018

Development Consent SSD-5465 (as modified)

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

Monitoring Results

Water – Quality

	October 2018		
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled			
Date Obtained			
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Biochem. Oxygen De	man mg/L	-	<2
Enterococci	col/100mL	-	420
	CFU/100mL	200	120
Faecal Coliforms		05.05	7.90
Faecal Coliforms pH	pH	6.5-8.5	1.50

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

LakeCoal

Water – Volume

	October 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	
01/10/2018	kL	4250	
02/10/2018	kL	1644	
03/10/2018	kL	4509	
04/10/2018	kL	4629	
05/10/2018	kL	6302	
06/10/2018	kL	3029	
07/10/2018	kL	10	
08/10/2018	kL	6919	
09/10/2018	kL	5063	
10/10/2018	kL	6902	
11/10/2018	kL	5660	
12/10/2018	kL	4478	
13/10/2018	kL	4493	
14/10/2018	kL	4184	
15/10/2018	kL	3425	
16/10/2018	kL	3755	
17/10/2018	kL	3695	
18/10/2018	kL	7152	
19/10/2018	kL	2044	
20/10/2018	kL	1083	
21/10/2018	kL	355	
22/10/2018	kL	2860	
23/10/2018	kL	6358	
24/10/2018	kL	6482	
25/10/2018	kL	6582	
26/10/2018	kL kL	5256	
27/10/2018	kL.	4323	
28/10/2018	kL.	4078	
29/10/2018	kL kL	3992	
30/10/2018	kL kL	4438	
31/10/2018	kL kL	4500	

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

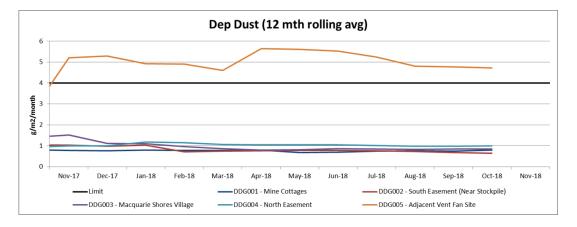
Depositional Dust

Sampling Date	10/09/2018 to 11/10/201	
Site	Insoluble Matter (g/m2/month)	
DDG001	1.2	
DDG002	0.8	
DDG003	0.4	
DDG004	1.0	
DDG005	0.9	

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

Operational Noise

No monitoring undertaken in October.

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 station)		
Date published:	Refer report date		
Date sampled:	Daily		
Date obtained:	11/11/2018		
	Total Rainfall / Month	Minimum	Maximum
Month	(mm)	Temperature (c ⁻)	Temperature (c [.])
Jan-18	23.4	13.8	42.5
Feb-18	124.2	14.1	38.0
Mar-18	55.6	10.5	38.1
Apr-18	70.6	11.7	33.8
May-18	18.6	7.3	27.6
Jun-18	289.0	5.1	19.7
Jul-18	6.4	2.3	24.7
Aug-18	56.8	3.9	24.5
Sep-18	65.6	6.3	32.2
Oct-18	259.2	8.2	29.5
Nov-18			
Dec-18			