

# LDO GROUP Report



<b>SITE:</b>	Chain Valley Colliery
<b>Department:</b>	HSEC
<b>REPORT TITLE:</b>	Monthly Environmental Report – September 2015
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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 September 2015 to 30 September 2015.

Details of the Chain Valley Colliery and 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	<a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50980&amp;SYSUID=1&amp;LICID=1770">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50980&amp;SYSUID=1&amp;LICID=1770</a>

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/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

## References

ALS Group - Monthly Water Monitoring Results (September 2015 - Work Order ES1526071)

ALS Water - Report of Analysis (HWA-15/05954)

Steel River Testing - Dust Deposition Report September 2015 (Report 9280-0)

Development Consent SSD-5465 (as modified)

Environment Protection Licence 1770 (Licence version date: 15 May 2015)

# Report



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## Monitoring Results

### Water – Quality

September 2015			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	07-Sep-15		
Date Obtained	14-Sep-15		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L		<2
Enterococci	CFU/100mL		9
Faecal Coliforms	CFU/100mL	200	4
pH	pH	6.5-8.5	7.89
Total Sus. Solids	mg/L	50	<5

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

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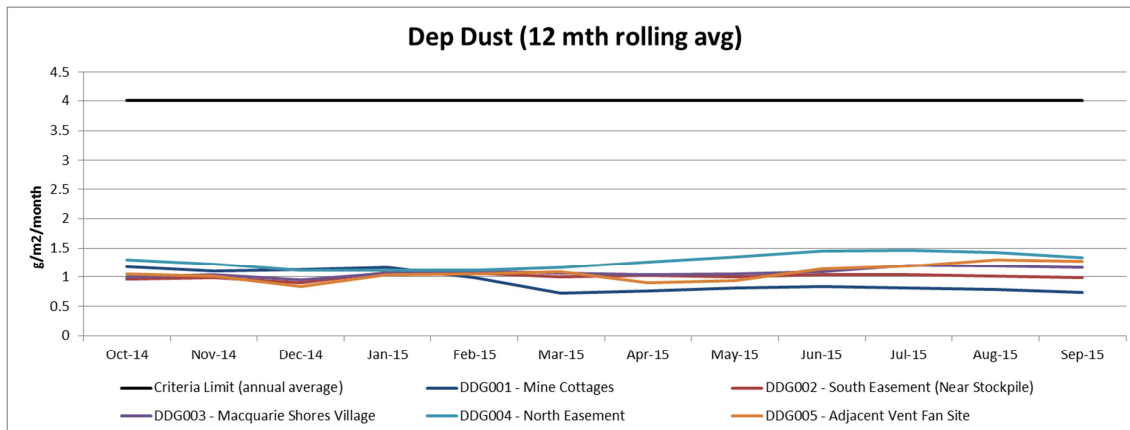
## Water – Volume

September 2015		
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
01/09/2015	kL	7447
02/09/2015	kL	5931
03/09/2015	kL	5407
04/09/2015	kL	3077
05/09/2015	kL	4662
06/09/2015	kL	5587
07/09/2015	kL	5260
08/09/2015	kL	5705
09/09/2015	kL	5647
10/09/2015	kL	5334
11/09/2015	kL	1564
12/09/2015	kL	4093
13/09/2015	kL	5129
14/09/2015	kL	5080
15/09/2015	kL	4964
16/09/2015	kL	4477
17/09/2015	kL	1301
18/09/2015	kL	4978
19/09/2015	kL	1985
20/09/2015	kL	4451
21/09/2015	kL	3691
22/09/2015	kL	3804
23/09/2015	kL	2375
24/09/2015	kL	2612
25/09/2015	kL	5285
26/09/2015	kL	2992
27/09/2015	kL	5369
28/09/2015	kL	2840
29/09/2015	kL	1594
30/09/2015	kL	2907

There was no exceedance of the 12,161 kL/day volumetric discharge limit during the month.

## Depositional Dust

September 2015			
Sampling Date	14/08/2015	to	11/09/2015
Site	Insoluble Matter (g/m <sup>2</sup> /month)		
DDG001	0.7		
DDG002	0.7		
DDG003	0.8		
DDG004	5.8		
DDG005	1.1		
Notes:			
- For site locations refer to Air Quality Management Plan			



## Operational Noise

The noise monitoring for Quarter 3 2015 has been undertaken. Results will be provided once the report has been compiled.

## Weather Data

Month	Total Rainfall / Month (mm)	Minimum Temperature (°C)	Maximum Temperature (°C)
Jan-15	235.4	13	35
Feb-15	54.2	16	33
Mar-15	122.4	11	35
Apr-15	422.2	12	27
May-15	138.4	8	26
Jun-15	90	6	23
Jul-15	20	3	20
Aug-15	32.6	3	27
Sep-15	112.8	7	28

