

LDO GROUP Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – January 2013
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Report Date:	13 / 02 / 2013
Distribution:	LakeCoal Website

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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 Project Approval (MP 10_0161) issued under the Environmental Planning and Assessment Act, 1979.
- An Environment Protection Licence (1770) issued under the Protection of the Environment Operations Act, 1997.

The above legislation, licence and approval require various monitoring and reporting to be undertaken by LakeCoal for Chain Valley Colliery.

This report covers the requirements of the above and attempts to make the data as understandable and easy to interpret as possible for the general public.

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 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 of receipt. 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 Project Approval) to determine compliance.

Monitoring results presented include;

- Water – quality
- Water – volume
- Depositional dust

Definitions

kL - kilolitres

mg/L – Milligrams per litre

µs/cm – microsiemens per centimetre

µg/L – Micrograms per litre

g/m²/month – grams per square metre per month

References

Monthly Water Monitoring Results from ALS Group (January 2013 - Work Order ES1301460)

Dust Deposition Report (December 2012 – Report 3983-0)

Project Approval 10_0161 (as modified)

Environment Protection Licence 1770

Monitoring Results

Water – Quality

January 2013			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	22-Jan-13		
Date Obtained	31-Jan-13		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Aluminium (total)	µg/L		16
Aluminium (soluble)	µg/L		7
Ammonia as N	mg/L		<0.1
Arsenic (total)	µg/L		1.1
Arsenic (soluble)	µg/L		1.1
Beryllium (total)	µg/L		<0.1
Beryllium (soluble)	µg/L		<0.1
Cadmium (total)	µg/L		<0.2
Cadmium (soluble)	µg/L		<0.2
Chromium (total)	µg/L		<0.5
Chromium (soluble)	µg/L		<0.5
Cobalt (total)	µg/L		<0.2
Cobalt (soluble)	µg/L		<0.2
Conductivity	µs/cm		30100
Copper (total)	µg/L		<1
Copper (soluble)	µg/L		<1
Lead (total)	µg/L		<0.2
Lead (soluble)	µg/L		<0.2
Mercury (total)	mg/L		<0.0001
Mercury (soluble)	mg/L		<0.0001
Molybdenum (total)	µg/L		2.6
Molybdenum (soluble)	µg/L		2.4
Nickel (total)	µg/L		1
Nickel (soluble)	µg/L		1
pH	pH	6.5-8.5	8.04
Selenium (total)	µg/L		<2
Selenium (soluble)	µg/L		<2
Silver (total)	µg/L		<0.1
Silver (soluble)	µg/L		<0.1
Total Sus. Solids	mg/L	25	<5
Vanadium (total)	µg/L		<0.5
Vanadium (soluble)	µg/L		<0.5
Zinc (total)	µg/L		15
Zinc (soluble)	µg/L		14

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Water – Volume

January 2013		
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
01/01/2013	kL	6554
02/01/2013	kL	4558
03/01/2013	kL	6518
04/01/2013	kL	6227
05/01/2013	kL	6526
06/01/2013	kL	6223
07/01/2013	kL	6213
08/01/2013	kL	6484
09/01/2013	kL	6181
10/01/2013	kL	5762
11/01/2013	kL	6036
12/01/2013	kL	6443
13/01/2013	kL	6126
14/01/2013	kL	6121
15/01/2013	kL	6108
16/01/2013	kL	6389
17/01/2013	kL	6094
18/01/2013	kL	6381
19/01/2013	kL	9784
20/01/2013	kL	8908
21/01/2013	kL	10705
22/01/2013	kL	3886
23/01/2013	kL	9372
24/01/2013	kL	6521
25/01/2013	kL	7414
26/01/2013	kL	9493
27/01/2013	kL	13093
28/01/2013	kL	10667
29/01/2013	kL	6568
30/01/2013	kL	8033
31/01/2013	kL	6590

Dispositional Dust

January 2013			
Sampling Date	18/12/2012	to	18/01/2013
Site	Insoluble Matter (g/m ² /month)		
DDG001	1.3		
DDG002	0.9		
DDG003	6.3		
DDG004	2.9		
DDG005	NA		

Notes:

- For site locations refer to Air Quality and Greenhouse Gas Management Plan
- Access and installation of DDG005 is not yet completed