

LDO GROUP Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – March 2013
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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.
- A groundwater bore licence (20BL173107) issued under the Water Act, 1912.

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 (March 2013 - Work Order ES1306986)

Dust Deposition Report (March 2013 – Report 4327-0)

Project Approval 10_0161 (as modified)

Environment Protection Licence 1770

Monitoring Results

Water – Quality

March 2013			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	25-Mar-13		
Date Obtained	03-Apr-13		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Aluminium (total)	µg/L		20
Aluminium (soluble)	µg/L		8
Ammonia as N	mg/L		<0.05
Arsenic (total)	µg/L		<0.5
Arsenic (soluble)	µg/L		<0.5
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		31200
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		0.9
Nickel (soluble)	µg/L		0.5
pH	pH	6.5-8.5	7.82
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	8
Vanadium (total)	µg/L		<0.5
Vanadium (soluble)	µg/L		<0.5
Zinc (total)	µg/L		15
Zinc (soluble)	µg/L		13

Water – Volume

March 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
01/03/2013	kL	6451
02/03/2013	kL	2997
03/03/2013	kL	5850
04/03/2013	kL	7047
05/03/2013	kL	11396
06/03/2013	kL	5228
07/03/2013	kL	6830
08/03/2013	kL	7128
09/03/2013	kL	4487
10/03/2013	kL	7100
11/03/2013	kL	5983
12/03/2013	kL	4941
13/03/2013	kL	4638
14/03/2013	kL	9695
15/03/2013	kL	4579
16/03/2013	kL	6117
17/03/2013	kL	4523
18/03/2013	kL	7095
19/03/2013	kL	6837
20/03/2013	kL	6158
21/03/2013	kL	5320
22/03/2013	kL	6689
23/03/2013	kL	5790
24/03/2013	kL	6802
25/03/2013	kL	5970
26/03/2013	kL	6772
27/03/2013	kL	6773
28/03/2013	kL	7094
29/03/2013	kL	6526
30/03/2013	kL	4771
31/03/2013	kL	6153

Dispositional Dust

March 2013			
Sampling Date	19/02/2013	to	19/03/2013

Site	Insoluble Matter (g/m ² /month)
DDG001	0.4
DDG002	1.1
DDG003	1.0
DDG004	-
DDG005	0.9

Notes:

- For site locations refer to Air Quality and Greenhouse Gas Management Plan
- DDG004 sample was broken in transit, so no result was obtained for March.