

Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – May 2012
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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 Project Approval (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



Definitions

kL - kilolitres

mg/L – Milligrams per litre

µs/cm – microsiemens per centimetre

µg/L – Micrograms per litre

References

Monthly Water Monitoring Results from ALS Group (May 2012 - Work Order ES1211399)

Project Approval 10_0161 dated 23 January 2012

Environment Protection Licence 1770

Monitoring Results



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Water - Quality

May 2012			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	10-May-12		
Date Obtained	25-May-12		
Date Reported	Refer report date		
Sampling Point	1		

Parameter	Units	Limit	Result
Aluminium (total)	µg/L		64
Aluminium (soluble)	µg/L		37
Ammonia as N	mg/L		0.1
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		32900
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		2.8
Molybdenum (soluble)	µg/L		2.7
Nickel (total)	µg/L		0.7
Nickel (soluble)	µg/L		0.7
pH	pH	6.5-8.5	7.92
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	36
Vanadium (total)	µg/L		0.9
Vanadium (soluble)	µg/L		0.9
Zinc (total)	µg/L		23
Zinc (soluble)	µg/L		10



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Water - Volume

May 2012		
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
01/05/2012	kL	4586
02/05/2012	kL	9191
03/05/2012	kL	7347
04/05/2012	kL	7380
05/05/2012	kL	7471
06/05/2012	kL	8348
07/05/2012	kL	7310
08/05/2012	kL	6111
09/05/2012	kL	5692
10/05/2012	kL	6803
11/05/2012	kL	8425
12/05/2012	kL	9018
13/05/2012	kL	7101
14/05/2012	kL	7126
15/05/2012	kL	5962
16/05/2012	kL	7870
17/05/2012	kL	3210
18/05/2012	kL	6963
19/05/2012	kL	6829
20/05/2012	kL	5613
21/05/2012	kL	9500
22/05/2012	kL	7109
23/05/2012	kL	4958
24/05/2012	kL	11158
25/05/2012	kL	10496
26/05/2012	kL	7505
27/05/2012	kL	7613
28/05/2012	kL	7890
29/05/2012	kL	8035
30/05/2012	kL	6266
31/05/2012	kL	6037