

Report



SITE:	Chain Valley Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – August 2012
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Report Date:	04/09/12
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 (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

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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 (August 2012 - Work Order ES1220346)

Project Approval 10_0161 dated 23 January 2012

Environment Protection Licence 1770

Monitoring Results

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Water - Quality

August 2012			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	23-Aug-12		
Date Obtained	30-Aug-12		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Aluminium (total)	µg/L		21
Aluminium (soluble)	µg/L		<10
Ammonia as N	mg/L		<0.10
Arsenic (total)	µg/L		0.6
Arsenic (soluble)	µg/L		0.6
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		30500
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		2.4
Molybdenum (soluble)	µg/L		2.7
Nickel (total)	µg/L		0.6
Nickel (soluble)	µg/L		0.8
pH	pH	6.5-8.5	7.93
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		15

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Water - Volume

August 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
01/08/2012	kL	8667
02/08/2012	kL	10665
03/08/2012	kL	7513
04/08/2012	kL	7520
05/08/2012	kL	9311
06/08/2012	kL	8572
07/08/2012	kL	8844
08/08/2012	kL	2743
09/08/2012	kL	4
10/08/2012	kL	3288
11/08/2012	kL	11745
12/08/2012	kL	8151
13/08/2012	kL	7055
14/08/2012	kL	6946
15/08/2012	kL	9937
16/08/2012	kL	5934
17/08/2012	kL	8008
18/08/2012	kL	8199
19/08/2012	kL	9033
20/08/2012	kL	5831
21/08/2012	kL	10613
22/08/2012	kL	7668
23/08/2012	kL	7122
24/08/2012	kL	9771
25/08/2012	kL	5529
26/08/2012	kL	9450
27/08/2012	kL	6959
28/08/2012	kL	5549
29/08/2012	kL	9362
30/08/2012	kL	5551
31/08/2012	kL	7281