

# Report



<b>SITE:</b>	<b>Chain Valley Colliery</b>
<b>Department:</b>	<b>HSEC</b>
<b>REPORT TITLE:</b>	<b>Monthly Environmental Report – July 2012</b>
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<b>Distribution:</b>	<b>LakeCoal Website</b>

# 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 (July 2012 - Work Order ES1217388)

Project Approval 10\_0161 dated 23 January 2012

Environment Protection Licence 1770

## Monitoring Results



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## Water - Quality

July 2012			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	16-Jul-12		
Date Obtained	23-Jul-12		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Aluminium (total)	µg/L		24
Aluminium (soluble)	µg/L		<10
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		32600
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		2.7
Molybdenum (soluble)	µg/L		2.4
Nickel (total)	µg/L		1.1
Nickel (soluble)	µg/L		1.2
pH	pH	6.5-8.5	7.97
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		17
Zinc (soluble)	µg/L		12



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## Water - Volume

July 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
01/07/2012	kL	5531
02/07/2012	kL	7946
03/07/2012	kL	5577
04/07/2012	kL	9473
05/07/2012	kL	5534
06/07/2012	kL	7995
07/07/2012	kL	7348
08/07/2012	kL	6595
09/07/2012	kL	5585
10/07/2012	kL	5610
11/07/2012	kL	7230
12/07/2012	kL	10101
13/07/2012	kL	6050
14/07/2012	kL	6965
15/07/2012	kL	9251
16/07/2012	kL	7162
17/07/2012	kL	5572
18/07/2012	kL	7078
19/07/2012	kL	5956
20/07/2012	kL	8972
21/07/2012	kL	1903
22/07/2012	kL	0
23/07/2012	kL	0
24/07/2012	kL	4394
25/07/2012	kL	8354
26/07/2012	kL	11297
27/07/2012	kL	7231
28/07/2012	kL	8419
29/07/2012	kL	9200
30/07/2012	kL	5932
31/07/2012	kL	5566