

LDO GROUP Report



SITE:	Mannering Colliery
Department:	HSEC
REPORT TITLE:	Monthly Environmental Report – January 2015
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Distribution:	Mannering Colliery Website

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Summary

There were no environmental incidents in the month of January 2015 at Mannering Colliery.

Introduction

LakeCoal Pty Ltd (LakeCoal) operates the Mannering Colliery, an underground coal mine at the southern end of Lake Macquarie.

This monthly report is to satisfy the requirements of;

- section 66(6) of the Protection of the Environment Operations Act, 1997, to make monitoring data related to an Environment Protection Licence publically available and
- condition 7 & 10, schedule 5, of Development Approval 06_0311 (as modified) to provide details of monitoring results and environmental performance.

This report provides environmental monitoring data from Mannering Colliery for the period 1st January 2015 to 31st January 2015.

Environmental monitoring data is collected as required under Environment Protection Licence 191 (EPL 191).

Details of the Mannering Colliery and EPL 191 are provided below.

Mannering Colliery Information	
Premises name	Mannering Colliery
Address	Rutleys Road, Doyalson, NSW, 2262
Licensee	LakeCoal Pty Ltd
EPL #	191
EPL location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33196&SYSUID=1&LICID=191

The overall purpose of this report is to keep stakeholders informed of the environmental monitoring results at Mannering Colliery and maintain a transparent and accountable reporting system.

Scope

This report presents the results from the various environmental monitoring undertaken for Mannering Colliery.

Results are presented for each specific month and annual data, averages and trends in data are shown to where relevant.

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;
- Air quality;
- Operational noise; and
- Weather data

Definitions

°C – degrees celsius

dB– decibels

dB(A) – noise level measurement units are decibels (dB). The A-weighting scale is used to approximate human perception of noise

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

kL– kilolitres

L_{Aeq}–the average A-weighted noise energy (in dB) for a measurement period

mg/L – Milligrams per litre

mm – millimetre

µS/cm – microsiemens per centimetre

References

Project Approval 06_0311 (as modified)

Environment Protection Licence 191 (Licence version date: 29 October 2013)

Steel River Testing - Dust Deposition Report – January 2015 (Report 8039-0)

ALS Environmental - Monthly Water Monitoring Results (January 2015 - Work Order ES1500489)

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Monitoring Results

Water – Quality

Daily Water Quality Results

Jan-15			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Period	01-Jan-15	to	31-Jan-15
Location	LDP001 (EPA ID # 1)		
Date sampled	Daily		
Date reported	Refer report date		
Monitoring requirement	Daily monitoring during discharge		
pH limit	6.5 - 8.5		
TSS limit (mg/L)	50		
Oil and grease limit (mg/L)	10		
Exceedance (Yes/No)	No		
Daily Water Quality Results			
Date	pH	TSS (mg/L)	Oil and grease (mg/L)
01/01/2015			
02/01/2015			
03/01/2015			
04/01/2015			
05/01/2015	7.9	9	<5
06/01/2015	7.9	7	<5
07/01/2015	7.8	<1	<5
08/01/2015	8.0	2	<5
09/01/2015	7.8	5	<5
10/01/2015			
11/01/2015			
12/01/2015	8.1	4	<5
13/01/2015	7.9	11	<5
14/01/2015	7.7	1	<5
15/01/2015	7.9	1	<5
16/01/2015	7.8	7	<5
17/01/2015			
18/01/2015			
19/01/2015	7.9	11	<5
20/01/2015	7.8	7	<5
21/01/2015	7.8	1	<5
22/01/2015	7.8	6	<5
23/01/2015	7.8	5	<5
24/01/2015			
25/01/2015			
26/01/2015			
27/01/2015	7.9	12	<5
28/01/2015	7.9	36	<5
29/01/2015	7.8	11	<5
30/01/2015	7.9	2	<5
31/01/2015			
Notes:			
Monitoring undertaken daily during water discharges			
There were no reportable incidents for the month of January 2015.			

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Monthly Water Quality Results

January 2015			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Date Sampled	13-Jan-15		
Date Obtained	22-Jan-15		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Aluminium (Dissolved)	µg/L		<10
Aluminium (Total)	µg/L		<10
Antimony	µg/L		<1
Arsenic (Dissolved)	µg/L		1
Arsenic (Total)	µg/L		1
Barium	µg/L		281
Beryllium (Dissolved)	µg/L		<1
Beryllium (Total)	µg/L		<1
Boron	µg/L		330
Cadmium (Dissolved)	µg/L		<0.1
Cadmium (Total)	µg/L		<0.1
Calcium	mg/L		162
Chromium (Dissolved)	µg/L		<1
Chromium (Total)	µg/L		<1
Cobalt (Dissolved)	µg/L		<1
Cobalt (Total)	µg/L		<1
Conductivity	µs/cm		26900
Copper (Dissolved)	µg/L		4
Copper (Total)	µg/L		2
Iron	µg/L		180
Lead (Total)	µg/L		<1
Lead (dissolved)	µg/L		<1
Lithium	µg/L		677
Magnesium	mg/L		282
Manganese (dissolved)	µg/L		42
Mercury (Total)	µg/L		<0.1
Mercury (dissolved)	µg/L		<0.1
Molybdenum (Dissolved)	µg/L		15
Molybdenum (Total)	µg/L		19
Nickel (Dissolved)	µg/L		6
Nickel (Total)	µg/L		6
Nitrogen (Ammonia)	mg/L		1.03
Phosphorous (Total)	mg/L		0.07
Potassium	mg/L		50
Selenium (Dissolved)	µg/L		<10
Selenium (Total)	µg/L		<10
Silica	mg/L		14.1
Silver (Total)	µg/L		<1
Silver (dissolved)	µg/L		<1
Sulfur	mg/L		154
Tin (Total)	µg/L		<1
Titanium (Total)	µg/L		<10
Vanadium (Dissolved)	µg/L		<10
Vanadium (Total)	µg/L		<10
Zinc (Dissolved)	µg/L		10
Zinc (Total)	µg/L		12

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Water – Volume

January 2015		
EPL	191	
Licensee	LakeCoal Pty Ltd	
Premises	Mannering Colliery	
Date Sampled	Daily	
Date Reported	Refer report date	
Discharge volume limit	4000 kilolitres per day	
Sampling Point	LDP001 (EPA ID # 1)	
Date (24 hour period)	Unit	Volume
01/01/2015	kL	0
02/01/2015	kL	0
03/01/2015	kL	0
04/01/2015	kL	0
05/01/2015	kL	1277
06/01/2015	kL	2121
07/01/2015	kL	2052
08/01/2015	kL	2118
09/01/2015	kL	1109
10/01/2015	kL	0
11/01/2015	kL	0
12/01/2015	kL	1330
13/01/2015	kL	2050
14/01/2015	kL	1912
15/01/2015	kL	1414
16/01/2015	kL	756
17/01/2015	kL	0
18/01/2015	kL	0
19/01/2015	kL	1496
20/01/2015	kL	2598
21/01/2015	kL	2094
22/01/2015	kL	1494
23/01/2015	kL	862
24/01/2015	kL	0
25/01/2015	kL	0
26/01/2015	kL	0
27/01/2015	kL	1263
28/01/2015	kL	2917
29/01/2015	kL	2366
30/01/2015	kL	744
31/01/2015	kL	0

Air Quality

Monthly depositional dust results

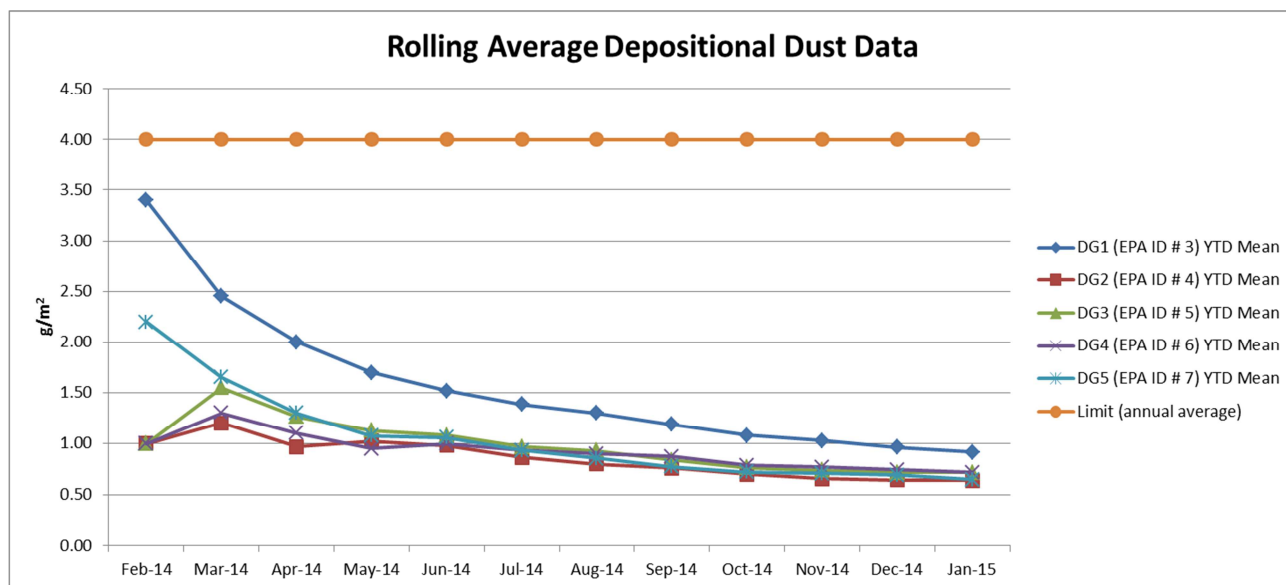
Monthly Depositional Dust Data			
January 2015			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Manning Colliery		
Date Sampled	19-Dec-14	to	20-Jan-15
Date Obtained	30-Jan-15		
Date Reported	Refer report date		
Sampling Point	As per site below		

Site	Insoluble Matter (g/m ² /month)
DG1 (EPA ID # 3)	0.4
DG2 (EPA ID # 4)	0.7
DG3 (EPA ID # 5)	0.5
DG4 (EPA ID # 6)	0.7
DG5 (EPA ID # 7)	0.7

Notes:

- For site locations refer to Air Quality Management Plan

Rolling annual average depositional dust results



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Operational Noise

Quarter 1 2015 attended noise monitoring has not yet been completed.

Results will be provided once the monitoring results become available from the noise monitoring consultants.

Weather

A summary of weather data recorded by an on-site meteorological monitoring station at the Colliery is presented below for the year to date.

Monthly Weather Data			
Jan-15			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Location	W1 (on-site weather station)		
Date published	Refer report date		
Date sampled:	Daily		
Date obtained:	10/02/2015		
Month	Total Rainfall / Month (mm)	Minimum Temperature (°C)	Maximum Temperature (°C)
Jan-15	235.4	13	35

