

Monthly Website Report



SITE:	Mannering Colliery
Department:	Technical Services
REPORT TITLE:	Monthly Environmental Report – January 2017
Prepared by:	Wade Covey
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Distribution:	Mannering Colliery Website

Report

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Summary

Monitoring was undertaken in December 2016 with all results in compliance with the required limits.

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 1 December 2016 to 31 December 2016.

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=50781&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.

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Title:

Manning Colliery Monthly Environmental Report

Scope

This report presents the results from the various environmental monitoring undertaken for Manning 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: 13 May 2015)

Steel River Testing - Dust Deposition Report – January 2017 Report No: 12841-0

ALS Environmental - Monthly Water Monitoring Results January 2017 – ES1701159

Steel River Testing – Water Analysis Report – January 2017 Report No: 12950-0

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Monitoring Results

Water – Quality

Water Quality Results (reverted to Daily during discharge as per EPL PRP requirements)

January 2017			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Period	1-Jan-17	to	31-Jan-17
Location	LDP001 (EPA ID # 1)		
Date sampled	Weekly		
Date reported	Refer report date		
Monitoring requirement	Weekly		
pH limit	6.5 - 8.5		
TSS limit (mg/L)	50		
Oil and grease limit (mg/L)	10		
Exceedance (Yes/No)	No		
Water Quality Results			
Date	pH	TSS (mg/L)	Oil and grease (mg/L)
1/01/2017			
2/01/2017			
3/01/2017			
4/01/2017	8.0	<1	<5
5/01/2017			
6/01/2017			
7/01/2017			
8/01/2017			
9/01/2017			
10/01/2017			
11/01/2017	7.9	1	<5
12/01/2017			
13/01/2017			
14/01/2017			
15/01/2017			
16/01/2017			
17/01/2017			
18/01/2017	8.4	3	<5
19/01/2017			
20/01/2017			
21/01/2017			
22/01/2017			
23/01/2017			
24/01/2017			
25/01/2017	7.9	6	<5
26/01/2017			
27/01/2017			
28/01/2017			
29/01/2017			
30/01/2017			
31/01/2017			

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Water – Volume

January 2017	
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
1/01/2017	kL	743
2/01/2017	kL	1254
3/01/2017	kL	262
4/01/2017	kL	824
5/01/2017	kL	1258
6/01/2017	kL	1239
7/01/2017	kL	1255
8/01/2017	kL	1239
9/01/2017	kL	1238
10/01/2017	kL	1233
11/01/2017	kL	340
12/01/2017	kL	0
13/01/2017	kL	657
14/01/2017	kL	1216
15/01/2017	kL	1173
16/01/2017	kL	707
17/01/2017	kL	8
18/01/2017	kL	923
19/01/2017	kL	840
20/01/2017	kL	1127
21/01/2017	kL	1119
22/01/2017	kL	1101
23/01/2017	kL	1642
24/01/2017	kL	908
25/01/2017	kL	1184
26/01/2017	kL	1159
27/01/2017	kL	1474
28/01/2017	kL	562
29/01/2017	kL	3
30/01/2017	kL	1298
31/01/2017	kL	1072

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Air Quality

Monthly depositional dust results

January 2017	
EPL	191
Licensee	LakeCoal Pty Ltd
Premises	Mannering Colliery
Date Sampled	12-Dec-16 to 12-Jan-16
Date Obtained	24-Jan-17
Date Reported	Refer report date
Sampling Point	As per site below

Site	Insoluble Matter (g/m2/month)
DG1 (EPA ID # 3)	0.7
DG2 (EPA ID # 4)	0.6
DG3 (EPA ID # 5)	0.7
DG4 (EPA ID # 6)	1.0
DG5 (EPA ID # 7)	NS

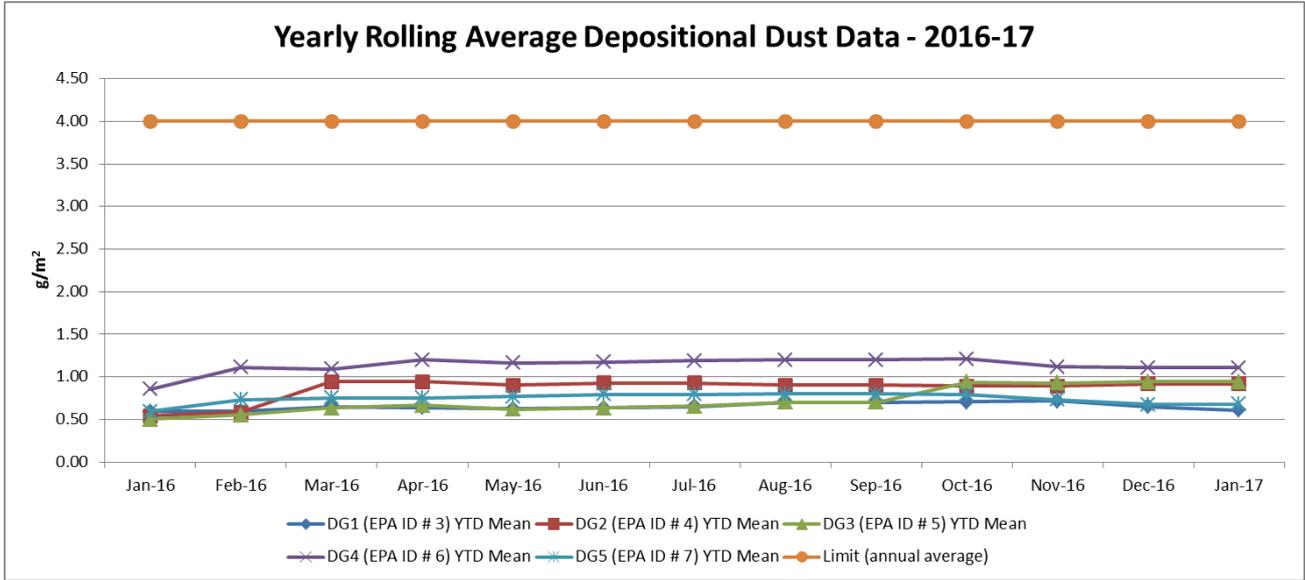
Notes:

- For site locations refer to Air Quality Management Plan
- NS - No Sample taken. Dust guage apparatus stolen from site

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Rolling annual average depositional dust results



Operational Noise

Next attended noise monitoring expected to be completed in March.

The next attended noise monitoring results will be published with the corresponding monthly report.

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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			
2016/17			
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:	13/02/2016		
Month	Total Rainfall / Month (mm)	Minimum Temperature (°C)	Maximum Temperature (°C)
Feb-16	17.4	16.4	37.7
Mar-16	92.2	14.3	30.1
Apr-16	36.2	12.1	33.5
May-16	46.6	5.3	27.8
Jun-16	248.2	3.4	21.4
Jul-16	73.2	2.5	25
Aug-16	115	4.5	24.3
Sep-16	68	7.4	24.2
Oct-16	61	7.3	33.3
Nov-16	46.8	10.9	35.2
Dec-16	85.2	14.5	38.9
Jan-17	68.6	17.4	40.1