

Monthly Website Report



SITE:	Mannering Colliery
Department:	Technical Services
REPORT TITLE:	Monthly Environmental Report – October 2016
Prepared by:	Wade Covey
Report Date:	14/10/2016
Distribution:	Mannering Colliery Website

Report

Title: **Mannering Colliery Monthly Environmental Report**

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Summary

Monitoring was undertaken in September 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 September 2016 to 30 September 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:

Mannering Colliery Monthly Environmental Report

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: 13 May 2015)

Steel River Testing - Dust Deposition Report – October 2016 Report

ALS Environmental - Monthly Water Monitoring Results October 2016

Steel River Testing - Dust Deposition Report – October 2016

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Monitoring Results

Water – Quality

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

October 2016			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Period	1-Oct-16	to	31-Oct-16
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)
1/10/2016			
2/10/2016			
3/10/2016			
4/10/2016			
5/10/2016			
6/10/2016	7.9	3	<5
7/10/2016			
8/10/2016			
9/10/2016			
10/10/2016			
11/10/2016			
12/10/2016	8.0	2	<5
13/10/2016			
14/10/2016			
15/10/2016			
16/10/2016			
17/10/2016			
18/10/2016			
19/10/2016	7.7	4	<5
20/10/2016			
21/10/2016			
22/10/2016			
23/10/2016			
24/10/2016			
25/10/2016			
26/10/2016	7.9	1	<5
27/10/2016			
28/10/2016			
29/10/2016			
30/10/2016			
31/10/2016			

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Water – Volume

October 2016		
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
1/10/2016	kL	0
2/10/2016	kL	0
3/10/2016	kL	0
4/10/2016	kL	1095
5/10/2016	kL	1365
6/10/2016	kL	1365
7/10/2016	kL	538
8/10/2016	kL	0
9/10/2016	kL	0
10/10/2016	kL	529
11/10/2016	kL	263
12/10/2016	kL	1026
13/10/2016	kL	1056
14/10/2016	kL	117
15/10/2016	kL	7
16/10/2016	kL	0
17/10/2016	kL	1058
18/10/2016	kL	1205
19/10/2016	kL	1396
20/10/2016	kL	1860
21/10/2016	kL	1022
22/10/2016	kL	1365
23/10/2016	kL	1242
24/10/2016	kL	1854
25/10/2016	kL	1374
26/10/2016	kL	1362
27/10/2016	kL	1343
28/10/2016	kL	1841
29/10/2016	kL	1323
30/10/2016	kL	551
31/10/2016	kL	77

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Air Quality

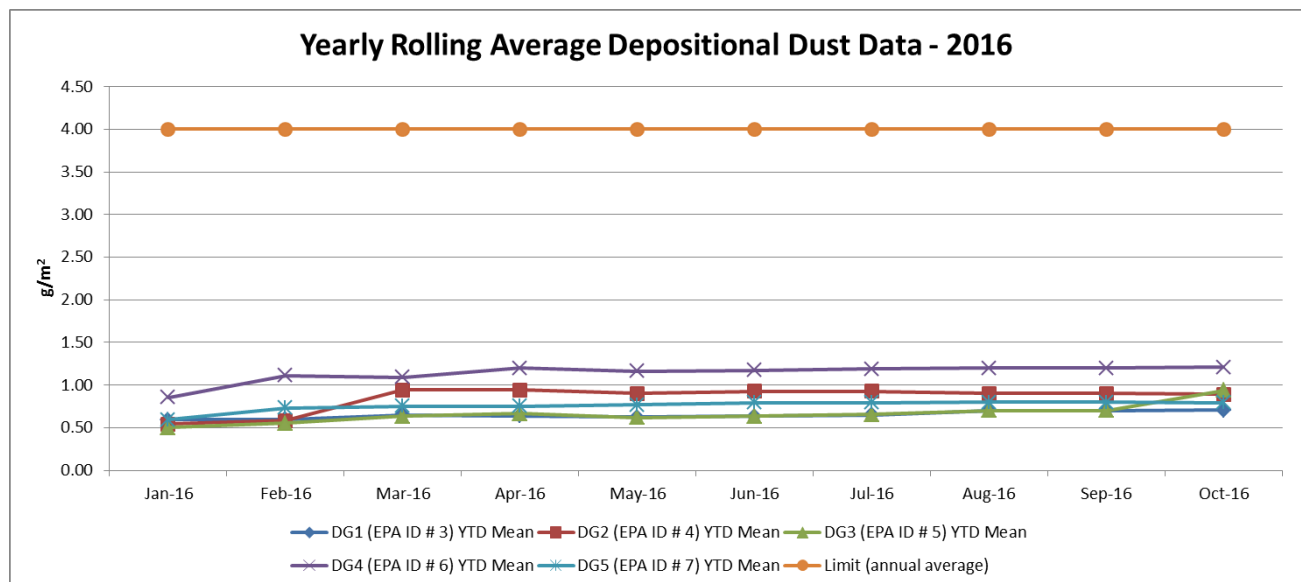
Monthly depositional dust results

Monthly Depositional Dust Data			
October 2016			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Date Sampled	12-Sep-16	to	12-Oct-16
Date Obtained	21-Oct-16		
Date Reported	Refer report date		
Sampling Point	As per site below		

Site	Insoluble Matter (g/m2/month)
DG1 (EPA ID # 3)	1.0
DG2 (EPA ID # 4)	0.5
DG3 (EPA ID # 5)	0.8
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



Operational Noise

Attended noise monitoring was undertaken in September. Noise results will be published in the next monthly environmental 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			
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:	13/10/2016		
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