

# Monthly Website Report



<b>SITE:</b>	<b>Mannering Colliery</b>
<b>Department:</b>	<b>Technical Services</b>
<b>REPORT TITLE:</b>	<b>Monthly Environmental Report – June 2018</b>
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<b>Report Date:</b>	<b>10/07/2018</b>
<b>Distribution:</b>	<b>Mannering Colliery Website</b>

# Report

Title: **Mannering Colliery Monthly Environmental Report**

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## Summary

Monitoring was undertaken in June 2018 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 June 2018 to 30 June 2018.

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.

<b>Mannering Colliery Information</b>	
Premises name	Mannering Colliery
Address	Rutleys Road, Doyalson, NSW, 2262
Licensee	LakeCoal Pty Ltd
EPL #	191
EPL location	<a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50781&amp;SYSUID=1&amp;LICID=191">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50781&amp;SYSUID=1&amp;LICID=191</a>

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; and
- Weather data

## Definitions

°C – degrees celsius

g/m<sup>2</sup>/month – grams per square metre per month

kL – kilolitres

L<sub>Aeq</sub> – 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: 12 May 2017)

Steel River Testing - Dust Deposition Report – June 2018

Steel River Testing – Water Analysis Report – June 2018

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## Monitoring Results

### Water – Quality

Water Quality Results (reverted to weekly as per EPL PRP requirements)

June 2018			
<b>EPL</b>	191		
<b>Licensee</b>	LakeCoal Pty Ltd		
<b>Premises</b>	Mannering Colliery		
<b>Period</b>	01-Jun-18	to	30-Jun-18
<b>Location</b>	LDP001 (EPA ID # 1)		
<b>Date sampled</b>	Weekly		
<b>Date reported</b>	Refer report date		
<b>Monitoring requirement</b>	Weekly		
<b>pH limit</b>	6.5 - 8.5		
<b>TSS limit (mg/L)</b>	50		
<b>Oil and grease limit (mg/L)</b>	10		
<b>Exceedance (Yes/No)</b>	No		
Water Quality Results			
Date	pH	TSS (mg/L)	Oil and grease (mg/L)
01/06/2018			
02/06/2018			
03/06/2018			
04/06/2018			
05/06/2018	7.8	10	<5
06/06/2018			
07/06/2018			
08/06/2018			
09/06/2018			
10/06/2018			
11/06/2018			
12/06/2018			
13/06/2018	7.7	8	<5
14/06/2018			
15/06/2018			
16/06/2018			
17/06/2018			
18/06/2018			
19/06/2018	7.9	3	<5
20/06/2018			
21/06/2018			
22/06/2018			
23/06/2018			
24/06/2018			
25/06/2018			
26/06/2018	7.8	1	<5
27/06/2018			
28/06/2018			
29/06/2018			
30/06/2018			

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## Water – Volume

June 2018	
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)

Day	Unit	Volume
01/06/2018	kL	658
02/06/2018	kL	456
03/06/2018	kL	0
04/06/2018	kL	1852
05/06/2018		
	kL	1989
06/06/2018	kL	384
07/06/2018	kL	807
08/06/2018	kL	1807
09/06/2018	kL	0
10/06/2018	kL	315
11/06/2018	kL	2450
12/06/2018	kL	808
13/06/2018	kL	1260
14/06/2018	kL	414
15/06/2018	kL	1831
16/06/2018	kL	0
17/06/2018	kL	0
18/06/2018	kL	1657
19/06/2018	kL	1008
20/06/2018	kL	1941
21/06/2018	kL	1041
22/06/2018	kL	812
23/06/2018	kL	117
24/06/2018	kL	0
25/06/2018	kL	1782
26/06/2018	kL	1696
27/06/2018	kL	838
28/06/2018	kL	1881
29/06/2018	kL	738
30/06/2018	kL	0

## Air Quality

### Monthly depositional dust results

Monthly Depositional Dust Data			
June 2018			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Date Sampled	14-May-18	to	13-Jun-18
Date Obtained	21-Jun-18		
Date Reported	Refer report date		
Sampling Point	As per site below		

Site	Insoluble Matter (gm <sup>2</sup> /month)
DG1 (EPA ID # 3)	1.2
DG2 (EPA ID # 4)	0.4
DG3 (EPA ID # 5)	0.3
DG4 (EPA ID # 6)	0.6
DG5 (EPA ID # 7)	0.6

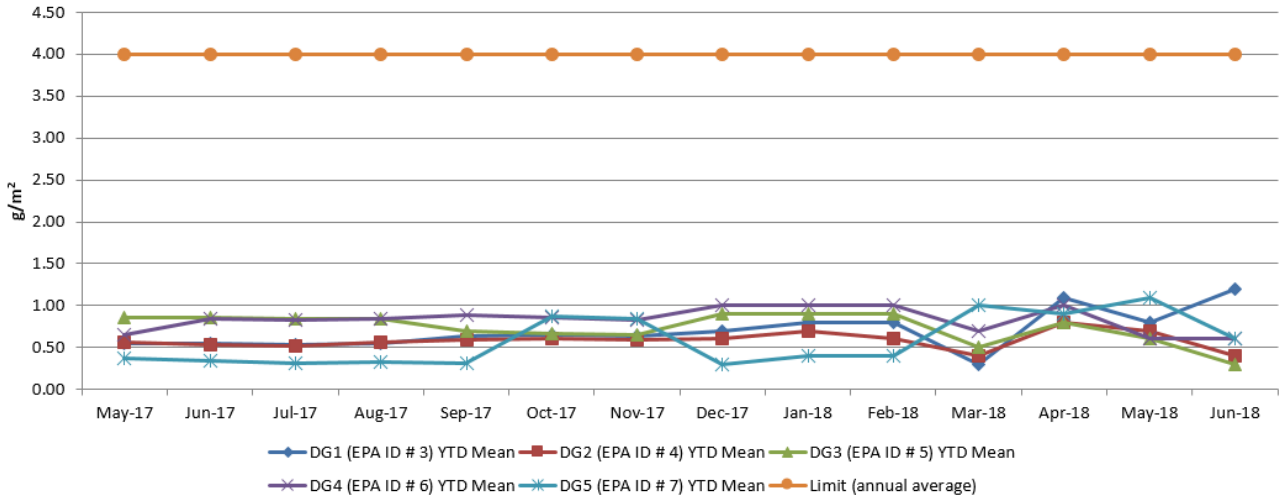
Notes:  
- For site locations refer to Air Quality Management Plan

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## Rolling annual average depositional dust results

Yearly Rolling Average Depositional Dust Data



## 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			
2018			
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:	02/07/2018		
Month	Total Rainfall / Month (mm)	Minimum Temperature (oC)	Maximum Temperature
Jan-18	23.4	13.8	42.5
Feb-18	124.2	14.1	38.0
Mar-18	55.6	10.5	38.1
Apr-18	70.6	11.7	33.8
May-18	18.6	7.3	27.6
Jun-18	289.0	5.1	19.7
Jul-18			
Aug-18			
Sep-18			
Oct-18			
Nov-18			
Dec-18			