

## **CULLEN VALLEY MINE**

### **Monthly Environmental Monitoring data**

**for**

***Castlereagh Coal***

#### **1 INTRODUCTION**

Castlereagh Coal owns and operates Cullen Valley Mine located near Cullen Bullen in the Central West district of New South Wales. This report has been prepared pursuant to Chapter 2, Part 3.5, Condition 66(6) of the *Protection of the Environment operations Act 1997* for the publication of results of monitoring and the NSW Environmental Protection Authority guideline titled *Requirements for publish pollution monitoring data (2012)*.

#### **2 ENVIRONMENT PROTECTION LICENCE DETAILS**

##### **Cullen Valley Mine (EPL 10341)**

Licensee: Shoalhaven Coal Pty Ltd

Address: Cullen Valley Mine, Portland Road, Cullen Bullen NSW 2790

Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50797&SYSUID=1&LICID=10341>

# MONTHLY ENVIRONMENTAL MONITORING DATA

October 2017

## 3 AIR QUALITY

**Table 1** *Depositional Dust Monitoring Results*

<b>Obtained:</b> 20/11/2017		<b>Premise:</b> Cullen Valley Mine		
<b>Published:</b> 20/11/2017		<b>Licensee:</b> Shoalhaven Coal		
		<b>EPL number:</b> 10341		
		<b>Exposure Period:</b> 30 days		
Sampling Point	Start Date	End Date	Insoluble Solids (g/m <sup>2</sup> /month)	Rolling Annual Average
CDD1 (Railway)	10/10/2017	9/11/2017	<0.1	0.4
CDD2 (Hillcroft)	10/10/2017	9/11/2017	2.9	2.1
CDD3 (Office)	10/10/2017	9/11/2017	0.3	0.5
CDD4 (Cranes)	10/10/2017	9/11/2017	0.5	0.7
CDD5 (Doble)	10/10/2017	9/11/2017	0.9	1.2
Annual Average Limit				4.0

Required Frequency: Monthly - exposure period 30 ± 2 days.

All depositional dust sampling locations were in compliance with the rolling annual average limit (4g/m<sup>2</sup>/month) for the month of October 2017.

**Table 2** *High Volume Air Sampler Monitoring Results*

<b>Obtained:</b> 11/11/2017		<b>Premise:</b> Cullen Valley Mine	
<b>Published:</b> 20/11/2017		<b>Licensee:</b> Shoalhaven Coal	
		<b>EPL number:</b> 10341	
Sampling Point	Run Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	TSP (µg/m <sup>3</sup> )^
HV02 (EPA Point 3)	03-Oct-17	11	30.0
	09-Oct-17	<1	<2.5
	15-Oct-17	1	2.5
	21-Oct-17	4	10
	27-Oct-17	1	2.5
Annual Average		8.3	20.8
24 Hour Limit		50	--
Annual Average Limit		25	90

Note: Results in italics indicates the results was less than laboratory detection limit.

Required Frequency: High Volume Air Sample run event every six days for 24 hours

-- No Limit

<sup>^</sup> TSP result is an estimate obtained from a calculation of the PM<sub>10</sub> concentration.

The 24 hour maximum PM<sub>10</sub> allowable limit of 50µg/m<sup>3</sup> was not exceeded for the month of September 2017.

The TSP and PM<sub>10</sub> annual average results were in compliance with the annual average limit for the month September 2017.

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### 4 WATER QUALITY

**Table 3** *Monthly Water Quality Results*

<b>Sampled:</b>	7/09/2017	<b>Premise:</b>	Cullen Valley Mine	
<b>Obtained:</b>	28/09/2017	<b>Licensee:</b>	Shoalhaven Coal	
<b>Published:</b>	16/10/2017	<b>EPL number:</b>	110341	
Sampling Point	Frequency	Pollutant	Limit	Measurement
Dam 1 (Point 1)	Monthly	pH (pH unit)	6.5 – 8.5	7.45
		TSS (mg/L)	50	5
		Oil & Grease (mg/L)	10	<5
		Conductivity (µS/cm)*	--	ND
		Total Iron (mg/L)*	--	ND
		Total Manganese (mg/L)*	--	ND
Dam 4 (Point 4)	Monthly	pH (pH unit)	6.5 – 8.5	7.37
		TSS (mg/L)	50	9
		Oil & Grease (mg/L)	10	<5
		Conductivity (µS/cm)*	--	ND
		Total Iron (mg/L)*	--	ND
		Total Manganese (mg/L)*	--	ND

-- No limit provided in EPL 10341

\* Only analysed during discharge events.

ND – no data as there was no discharge from the site during this period.

All water samples collected during October 2017 were in compliance with their respective EPL criteria.

### 5 NOISE LIMITS

Routine quarterly noise monitoring was undertaken on 19 October 2017. Cullen Valley Mine complied with the consent and EPL LAeq, 15minute noise limits during monitoring undertaken for Quarter 4, 2017.

### 6 BLASTING

No blasting was undertaken during October 2017. Cullen Valley Mine is not currently operating.

### 7 DISCLAIMER

This report is considered accurate at the date of issue with regard to current environmental conditions. Monitoring results may vary from those presented in this report following further assessment. This report must not be reproduced except in full. Results or figures from this report must not be used without acknowledgment.

Yours Faithfully,

**CASTLEREAGH COAL**