

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 2015



3 AIR QUALITY

Table 1 *Depositional Dust Monitoring Results*

Obtained: 10/11/2015		Premise: Cullen Valley Mine		
Published: 16/11/2015		Licensee: Shoalhaven Coal		
		EPL number: 10341		
		Exposure Period: 32 days		
Sampling Point	Start Date	End Date	Insoluble Solids (g/m ² /month)	Rolling Annual Average
CDD1 (Railway)	9/10/2015	10/11/2015	0.4	0.4
CDD2 (Hillcroft)	9/10/2015	10/11/2015	5.3	3.3
CDD3 (Office)	9/10/2015	10/11/2015	0.1	0.6
CDD4 (Cranes)	9/10/2015	10/11/2015	0.8	1.0
CDD5 (Doble)	9/10/2015	10/11/2015	0.3	0.8
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/m²/month) for the month of October.

Table 2 *High Volume Air Sampler Monitoring Results*

Premise:		Cullen Valley Mine	
Obtained:	11/11/2015	Licensee:	Shoalhaven Coal
Published:	16/11/2015	EPL number:	10341
Sampling Point	Run Date	PM ₁₀ (µg/m ³)	TSP (µg/m ³)^
HV02 (EPA Point 3)	02-Oct-15	11	27.5
	08-Oct-15	10	25.0
	14-Oct-15	13	32.5
	20-Oct-15	11	27.5
	26-Oct-15	10	25.0
Annual Average		7.6	18.3
24 Hour Limit		50	--
Annual Average Limit		30	90

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

-- No Limit

[^] TSP result is an estimate obtained from a calculation of the PM₁₀ concentration.

The 24 hour maximum PM₁₀ allowable limit of 50µg/m³ was not exceeded for the month of October.

The TSP and PM₁₀ annual average results were in compliance with the annual average limit for the month of October.

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4 WATER QUALITY

Table 3 *Discharge Water Quality Results*

Sampled:	NA	Premise:	Cullen Valley Mine	
Obtained:	NA	Licensee:	Shoalhaven Coal	
Published:	16/11/2015	EPL number:	110341	
Sampling Point	Frequency	Pollutant	Limit	Measurement
Dam 1 (Point 1)	Weekly During Discharge	pH (pH unit)	6.5 – 8.5	ND
		TSS (mg/L)	50	ND
		Oil & Grease (mg/L)	10	ND
		Conductivity (µS/cm)	--	ND
		Total Iron (mg/L)	--	ND
		Total Manganese (mg/L)	--	ND
Dam 4 (Point 4)	Weekly During Discharge	pH (pH unit)	6.5 – 8.5	ND
		TSS (mg/L)	50	ND
		Oil & Grease (mg/L)	10	ND
		Conductivity (µS/cm)	--	ND
		Total Iron (mg/L)	--	ND
		Total Manganese (mg/L)	--	ND

-- No limit provided in EPL 10341

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

5 NOISE LIMITS

No noise monitoring was undertaken during October 2015. Noise monitoring is conducted on a quarterly frequency and is next scheduled for November 2015.

6 BLASTING

No blasting was undertaken during October 2015. 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