

### **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

## 3 AIR QUALITY

### 3.1 DEPOSITIONAL DUST

All depositional dust sampling locations were in compliance with the rolling annual average limit  $(4g/m^2/month)$  for the period May 2021 to April 2022. Depositional dust monitoring results are presented in **Table 1**.



Table 1Depositional Dust Monitoring Results: April 2022

		F	Premise:	Cullen Valley Mine	
<b>Obtained:</b> 26/05/2022		/2022 <b>L</b>	icensee:	Shoalhaven Coal	
Published:	ublished: 27/05/2022		PL number:	10341	
		E	xposure Period:	31 days	
Sampling Point		Start Date	End Date	Insoluble Solids (g/m²/month)	Rolling Annual Average
CDD1 (Railway)		01-Apr-22	02-May-22	0.3	0.3
CDD2 (Hillcroft)		01-Apr-22	02-May-22	0.2	0.4
CDD3 (Office)		01-Apr-22	02-May-22	0.3	0.2
CDD4 (Cranes)		01-Apr-22	02-May-22	0.4	0.2
CDD5 (Dob	ole)	01-Apr-22	02-May-22	0.1	0.4
				Annual Average Limit	4.0

Required Frequency: Monthly - exposure period  $30 \pm 2$  days.

### 3.2 PM<sub>10</sub> AND TSP

The 24-hour maximum  $PM_{10}$  particulate matter concentration less than 10 microns ( $PM_{10}$ ) criterion of  $50\mu g/m^3$  was not exceeded during April 2022. The total suspended particulate (TSP) and  $PM_{10}$  annual average results were in compliance with the annual average limit for April 2022.

PM<sub>10</sub> and TSP monitoring results are presented in **Table 2**.

Table 2High Volume Air Sampler Monitoring Results: April 2022

		Premise:	Cullen Vall	ey Mine	
<b>Obtained:</b> 26/05/2022		Licensee:	Shoalhave	n Coal	
Published:	27/05/2022	EPL numbe	er: 10341	10341	
Sampling Point		Run Date	PM <sub>10</sub> (μg/m³)	TSP (μg/m³)^	
HVAS1		04-Apr-22	<0.1	0.3	
		10-Apr-22	<0.1	0.3	
		16-Apr-22	<0.1	0.3	
		22-Apr-22	0.6	1.5	
		28-Apr-22	1.5	3.8	
Rolling Annual Average (calculation period May 2021 to April 2022)			4.9	12.2	
		24 Hour Limit	50		
	_	Annual Average Limit	30	90	

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

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



### 4 SURFACE WATER QUALITY

A discharge event is deemed to occur when water leaves the site either through the overflow channel of either Dam 3 or Dam 4, or as a result of actively pumping water. A discharge event was not observed during the site visit on 4 April 2022; therefore, a sample was not required to be collected at either Dam 3 or Dam 4 (EPA Point 1 and EPA Point 2 respectively). A sample was collected from both Dams for due diligence purposes only. Water quality results are presented in **Table 3**.

Table 3 Monthly Surface Water Quality Results: April 2022

Sampled: 04/0	04/2022	Premise:	Cullen Valley Mine	
Obtained: 26/0	05/2022	Licensee:	Shoalhaven Coal	
Published: 27/0	05/2022	EPL number:	10341	
Sampling Point	Frequency	Pollutant	Limit	Measurement
	Weekly during discharge	pH (pH unit)	6.5 – 8.5	7.20
		TSS (mg/L)	50	6
Dam 2 /EDA Daint 1\1		Oil & Grease (mg/L)	10	<5
Dam 3 (EPA Point 1) <sup>1</sup>		Conductivity (μS/cm)*		501
		Total Iron (mg/L)*		0.19
		Total Manganese (mg/L)*		0.17
		pH (pH unit)	6.5 – 8.5	7.20
	Weekly ) <sup>1</sup> during discharge	TSS (mg/L)	50	10
Dom 4 (FDA Doint 4)1		Oil & Grease (mg/L)	10	<5
Dam 4 (EPA Point 4) <sup>1</sup>		Conductivity (μS/cm)*		702
	aiscriaige	Total Iron (mg/L)*		0.14
		Total Manganese (mg/L)*		0.738

<sup>&</sup>lt;sup>1</sup> – sample collected for due diligence purposes only.

The pH, total suspended solids (TSS) and oil and grease concentration was compliant with the EPL limits, however samples were taken for due diligence purposes as there was no discharge event.

### 5 NOISE LIMITS

Attended noise monitoring is undertaken on a quarterly frequency. Noise monitoring reports are available on the Castlereagh Coal website: <a href="https://www.ccoal.com.au/environmental-reporting-compliance/">www.ccoal.com.au/environmental-reporting-compliance/</a>

### 6 BLASTING

No blasting was undertaken during April 2022.

<sup>--</sup> No limit provided in EPL 10341

# MONTHLY ENVIRONMENTAL MONITORING DATA





# 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**