

INVINCIBLE COLLIERY

Monthly Environmental Monitoring data

for

Castlereagh Coal

1 INTRODUCTION

Castlereagh Coal owns and operates Invincible Colliery 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

Invincible Colliery (EPL 1095)

Licensee: Shoalhaven Coal Pty Ltd

Address: Invincible Colliery, Castlereagh Highway, Cullen Bullen, NSW 2790

Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50798&SYSUID=1&LICID=1095>

MONTHLY ENVIRONMENTAL MONITORING DATA

July 2015

3 AIR QUALITY

Table 1 *Depositional Dust Monitoring Results*

Obtained: 30/07/2015		Premise: Invincible Colliery		
Published: 17/09/2015		Licensee: Shoalhaven Coal		
		EPL number: 1095		
		Exposure Period: 31 days		
Sampling Point	Start Date	End Date	Insoluble Solids (g/m ² /month)	Annual Average (g/m ² /month)
IDD1 (EPA Point 3)	26-Jun-2015	27-Jul-2015	<0.1	2.3
IDD2 (EPA Point 4)	26-Jun-2015	27-Jul-2015	<0.1	1.0
IDD3 (EPA Point 5)	26-Jun-2015	27-Jul-2015	0.6	1.0
IDD4 (EPA Point 6)	26-Jun-2015	27-Jul-2015	<0.1	0.6
IDD5 (EPA Point 7)	26-Jun-2015	27-Jul-2015	0.9	4.5
Annual Average Limit				4.0

Required Frequency: Monthly - exposure period 30 ± 2 days

All depositional dust sampling locations were in compliance with the annual average limit (4g/m²/month) for the month of July with the exception of dust gauge IDD5.

The elevated annual average result at dust gauge IDD5 is primarily due to high concentrations recorded during the period April to October 2014 (refer historical monitoring reports on the Castlereagh Coal website <http://www.castlereaghcoal.com.au/>).

Table 2 *High Volume Air Sampler Monitoring Results*

Premise:		Invincible Colliery	
Obtained:	3/08/2015	Licensee:	Shoalhaven Coal
Published:	17/09/2015	EPL number:	1095
Sampling Point	Run Date	PM ₁₀ (µg/m ³)	TSP estimate (µg/m ³)
HVAS1 (EPA Point 3)	4-Jul-2015	2	5
	10-Jul-2015	2	5
	16-Jul-2015	1	2.5
	22-Jul- 2015	1	2.5
	28-Jul-2015	3	7.5
Annual Average		4.9	18.1
24 Hour Limit		50	--
Annual Average Limit		30	90

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

-- No Limit

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

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

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4 WATER QUALITY

Table 3 *Discharge Water Quality Results*

Sampled:	N/A	Premise:	Invincible Colliery	
Obtained:	N/A	Licensee:	Shoalhaven Coal	
Published:	17/09/2015	EPL number:	1095	
Sampling Point	Frequency	Pollutant	100 Percentile Concentration Limit	Concentration
Discharge Point 2 (EPA Point 2)	Monthly during discharge	pH (pH unit)	6.5 – 8.5	ND
		TSS (mg/L)	30	ND
		Oil & Grease (mg/L)	10	ND

ND – no discharge during reporting period

5 NOISE LIMITS

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

6 BLASTING

No blasting was undertaken during July 2015. Invincible Colliery 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