



ENVIRONMENTAL MONITORING REPORT

ENVIRONMENTAL PROTECTION LICENCE NO: 1087



Published
19 November 2019



Site	Wongawilli Colliery	DOC ID	WWC EC RPT 003
Type	Report	Date Published	19/11/2019
Doc Title	WWC ENVIRONMENTAL MONITORING REPORT EPL NO.1087		

GLOSSARY OF TERMS AND ABBREVIATIONS

Abbreviations	
EPL	Environmental Protection Licence
KL/d	Kilolitres per day
mg/L	Milligrams per litre
BAM	Beta-Attenuation Monitor – Particulate Matter 10 µg

Term	Definition
Dry Weather Conditions	'Dry Weather Conditions' means less than ten millimetres of rain falling within a 24 hour period and is measured at a point on the premises.
Wet Weather Conditions	'Wet Weather Conditions' means anything other than Dry Weather Conditions.

LICENCE DETAILS

Licence Number 1087
Licence Version Date 26/10/2018

Premises

Wongawilli Colliery
Jersey Farm Road, West Dapto NSW 2530
PO Box 924, Dapto NSW 2530

This document is developed and published in fulfilment of **section 66(6) of the Protection of the Environment Operations (POEO) Act 1997**, to make any of the monitoring data that relates to pollution, and the licensee's name, publicly and prominently available on their website in accordance with any requirements issued in writing by the EPA.

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1 WONGAWILLI COLLIERY EPL MONITORING LOCATION POINTS



Figure 1 - Licensed Monitoring and Discharge Points at Wongawilli

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2 WONGAWILLI COLLIERY EPL MONITORING LOCATION POINTS



Figure 2 - Licensed Discharge Point 2 at Wongawilli Pit-Top Area

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3 WONGAWILLI COLLIERY EPL MONITORING LOCATION POINTS

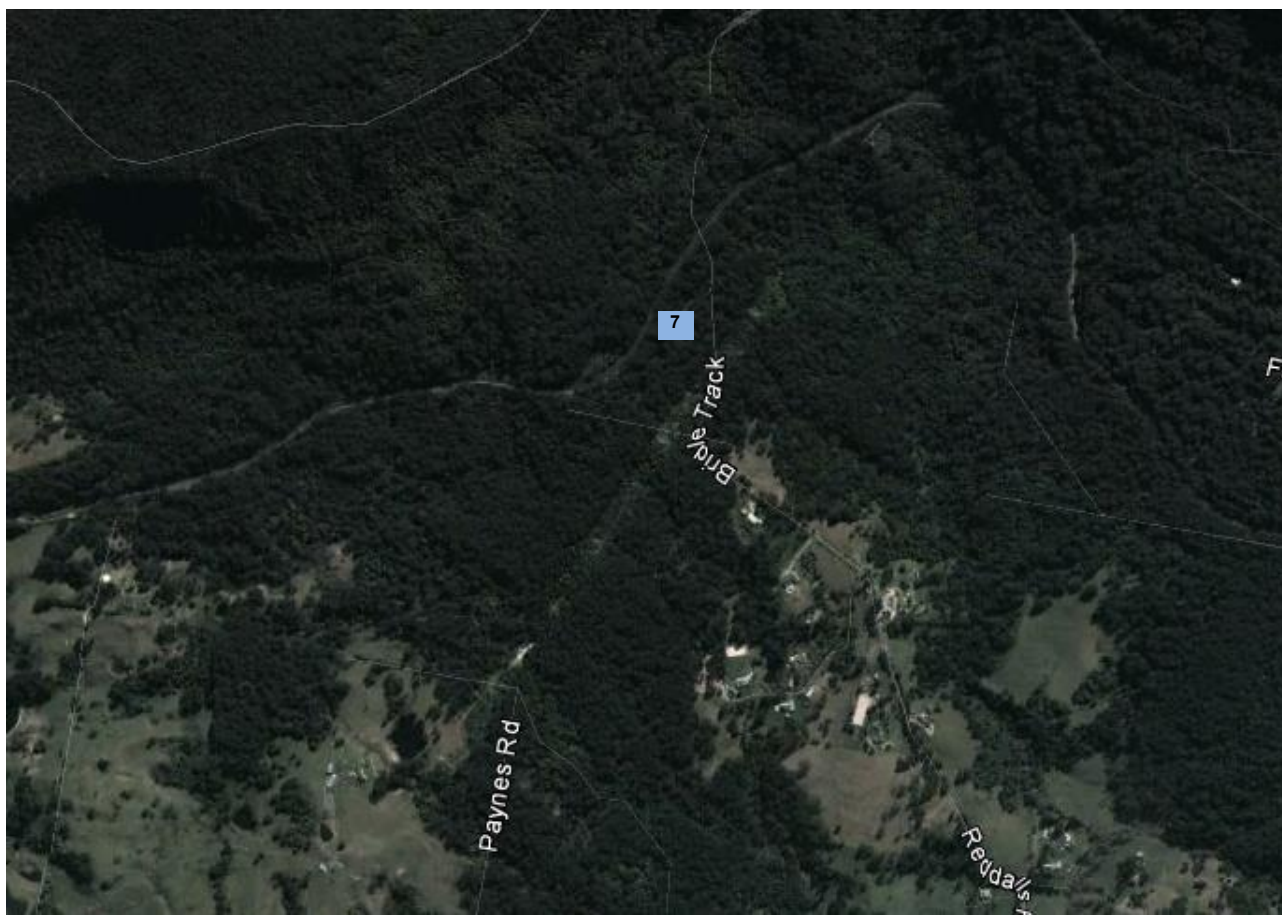


Figure 3 - Licensed Discharge Point 7 at Junction at Forest 11 Portal, Mt Kembla



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4 WATER QUALITY MONITORING RESULTS

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Discharge Point No: 1

Location: Secondary Stabilisation Lagoon; STP Discharge

Monitoring Frequency: Monthly during discharge

Name of Testing Laboratory: ALS Laboratory Group

Nata Registered: Yes

EPL 100 Percentile Concentration limits:

pH (pH units): 6.5 – 8.5

Total Suspended Solids (mg/L): 50

Oil & Grease (mg/L): 10

BOD (mg/L): 20

Date of Sampling	Date of results obtained	Date Published	Discharging	Time	BOD (mg/L)	TSS (mg/L)	pH (pH Units)	Oil & Grease (mg/L)	Comments
January			No						*
February			No						*
March			No						*
April			No						*
May			No						*
June			No						*
July			No						*
August			No						*
September			No						*
October			No						*
November			No						*
December			No						*

* Water was not discharged via this point during the period



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5 WATER QUALITY MONITORING RESULTS

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Discharge Point No: 2

Location: Mine-water discharge at Transport Portal

Monitoring Frequency: Once a month

Name of Testing Laboratory: ALS Laboratory Group

Nata Registered: Yes

EPL 100 Percentile Concentration limits:

pH (pH units): 6.5 – 8.5

Total Suspended Solids (mg/L): 50

Oil & Grease (mg/L):10

Date of Sampling	Date of results obtained	Date Published	Discharging	Time	TSS (mg/L)	pH (pH Units)	Oil & Grease (mg/L)	Comments
04/01/18	01/02/18	18/07/18	YES	10:30 AM	<5	8.04	<5	
05/02/18	08/03/18	18/07/18	YES	09:45 AM	<5	7.20	<5	
06/03/18	19/6/18	18/07/18	YES	12:09 PM	8	8.50	<5	
05/04/18	25/6/18	18/07/18	YES	12:25 PM	<5	7.30	<5	
10/05/18	09/07/18	18/07/18	YES	08:40 AM	12.4	7.30	<5	
07/06/18	30/08/18	31/08/18	YES	11:12 AM	<5	7.30	<5	
02/07/18	30/08/18	31/08/18	YES	12:30 PM	<5	7.40	<5	
02/08/18	22/10/18	13/11/18	YES	09:10 AM	89	7.30	<5	
07/09/18	29/11/18	27/02/19	YES	02:20 PM	12	8.45	<5	
05/10/18	29/11/18	27/02/19	YES	02:35 PM	9	7.4	<5	
05/11/18	26/02/19	27/02/19	YES	10:10 AM	<5	7.4	<5	
03/12/18	26/02/19	27/02/19	YES	09:40 AM	<5	7.5	<5	



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6 WATER QUALITY MONITORING RESULTS

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Discharge Point No: 7

Location: Junction at Forest 11 Portal – old portal

Monitoring Frequency: Monthly during discharge

Name of Testing Laboratory: ALS Laboratory Group

Nata Registered: Yes

EPL 100 Percentile Concentration limits:

pH (pH units): 6.5 – 8.5

Total Suspended Solids (mg/L): 50

Oil & Grease (mg/L):10

Date of Sampling	Date of results obtained	Date Published	Discharging	Time	TSS (mg/L)	pH (pH Units)	Oil & Grease (mg/L)	Comments
January			No					*
February			No					*
March			No					*
April			No					*
May			No					*
June			No					*
July			No					*
August			No					*
September			No					*
October			No					*
November			No					*
December			No					*

* Water was not discharged at this point during the period



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7 DUST MONITORING RESULTS

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Point No: 9

Location: South Western Boundary

Monitoring Frequency: Monthly

Name of Testing Laboratory: ALS Laboratory Group

Nata Registered: Yes

MONTHLY RESULTS (g/m²/month)

Sample Period	Date of results obtained	Date Published	Ash	Combustible Solids	Insoluble Solids	Comments
January	08/03/18	18/07/18	0.4	0.3	0.7	
February	19/06/18	18/07/18	12.6	2.8	15.4	
March	25/06/18	18/07/18	0.5	0.2	0.7	
April	09/07/18	18/07/18	0.5	0.3	0.8	
May	30/08/18	31/08/18	0.1	<0.1	0.1	
June	30/08/18	31/08/18	0.2	0.1	0.3	
July	16/10/18	13/11/18	0.3	0.2	0.5	
August	29/11/18	27/02/19	0.1	0.1	0.2	
September	29/11/18	27/02/19	0.2	0.1	0.2	
October	26/02/19	27/02/19	*	*	*	
November	26/02/19	27/02/19	0.6	0.2	0.8	
December	20/03/19	04/04/19	1.4	0.6	2.0	

* No lab analysis completed (sample bottle stolen)



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8 DUST MONITORING RESULTS

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Point No: 10

Location: Wongawilli Mine Bins

Monitoring Frequency: Monthly

Name of Testing Laboratory: ALS Laboratory Group

Nata Registered: Yes

MONTHLY RESULTS (g/m²/month)

Sample Period	Date of results obtained	Date Published	Ash	Combustible Solids	Insoluble Solids	Comments
January	08/03/18	18/07/18	1.5	0.7	2.2	
February	19/06/18	18/07/18	0.6	0.7	1.3	
March	25/06/18	18/07/18	0.8	0.7	1.5	
April	09/07/18	18/07/18	0.6	0.3	0.9	
May	30/08/18	31/08/18	0.5	0.7	1.2	
June	30/08/18	31/08/18	0.3	0.4	0.7	
July	16/10/18	13/11/18	0.6	0.9	1.5	
August	29/11/18	27/02/19	0.9	1.2	2.1	
September	29/11/18	27/02/19	0.7	1	1.7	
October	26/02/19	27/02/19	0.6	0.6	1.2	
November	26/02/19	27/02/19	1.4	2.1	3.5	
December	20/03/19	04/04/19	1.3	0.5	1.8	



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9 DUST MONITORING RESULTS

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Point No: 11

Location: Wongawilli Village (behind old school)

Monitoring Frequency: Monthly

Name of Testing Laboratory: ALS Laboratory Group

Nata Registered: Yes

MONTHLY RESULTS (g/m²/month)

Sample Period	Date of results obtained	Date Published	Ash	Combustible Solids	Insoluble Solids	Comments
January	08/03/18	18/07/18	0.7	0.6	1.3	
February	19/06/18	18/07/18	2.1	1.4	3.5	
March	25/06/18	18/07/18	0.7	0.7	1.4	
April	09/07/18	18/07/18	0.4	0.1	0.5	
May	30/08/18	31/08/18	0.3	0.2	0.5	
June	30/08/18	31/08/18	0.3	0.2	0.5	
July	16/10/18	13/11/18	0.5	0.2	0.7	
August	29/11/18	27/02/19	0.4	0.3	0.7	
September	29/11/18	27/02/19	0.5	0.2	0.7	
October	26/02/19	27/02/19	0.7	0.3	1	
November	26/02/19	27/02/19	1.2	1.2	2.4	
December	20/03/19	04/04/19	2.0	1.4	3.4	



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10 DUST MONITORING RESULTS

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Point No: 12

Location: Shone Ave

Monitoring Frequency: Monthly

Name of Testing Laboratory: ALS Laboratory Group

Nata Registered: Yes

MONTHLY RESULTS (g/m²/month)

Sample Period	Date of results obtained	Date Published	Ash	Combustible Solids	Insoluble Solids	Comments
January	08/03/18	18/07/18	1.1	1.1	2.2	
February	19/06/18	18/07/18	2.1	2.0	4.1	
March	25/06/18	18/07/18	0.6	0.5	1.1	
April	09/07/18	18/07/18	0.5	0.3	0.8	
May	30/08/18	31/08/18	0.2	0.1	0.3	
June	30/08/18	31/08/18	0.7	0.4	1.1	
July	16/10/18	13/11/18	0.2	<0.1	0.2	
August	29/11/18	27/02/19	0.1	0.2	0.3	
September	29/11/18	27/02/19	0.3	0.3	0.6	
October	26/02/19	27/02/19	0.6	1.8	2.4	
November	26/02/19	27/02/19	1.3	2.3	3.6	
December	20/03/19	04/04/19	1.0	0.6	1.6	



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11 DUST MONITORING RESULTS

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Point No: 13

Location: West Dapto Rd/Bong Bong Rd

Monitoring Frequency: Monthly

Name of Testing Laboratory: ALS Laboratory Group

Nata Registered: Yes

MONTHLY RESULTS (g/m²/month)

Sample Period	Date of results obtained	Date Published	Ash	Combustible Solids	Insoluble Solids	Comments
January	08/03/18	18/07/18	1.5	1.7	3.2	
February	19/06/18	18/07/18	1.0	1.5	2.5	
March	25/06/18	18/07/18	1.0	1.2	2.2	
April	09/07/18	18/07/18	0.4	0.1	0.5	
May	30/08/18	31/08/18	0.1	0.2	0.3	
June	30/08/18	31/08/18	0.2	0.2	0.4	
July	16/10/18	13/11/18	0.2	<0.1	0.2	
August	29/11/18	27/02/19	0.4	0.4	0.8	
September	29/11/18	27/02/19	0.3	0.3	0.6	
October	26/02/19	27/02/19	0.1	0.1	0.2	
November	26/02/19	27/02/19	0.8	0.4	1.2	
December	20/03/19	04/04/19	2.0	2.2	4.2	



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12 DUST MONITORING RESULTS

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

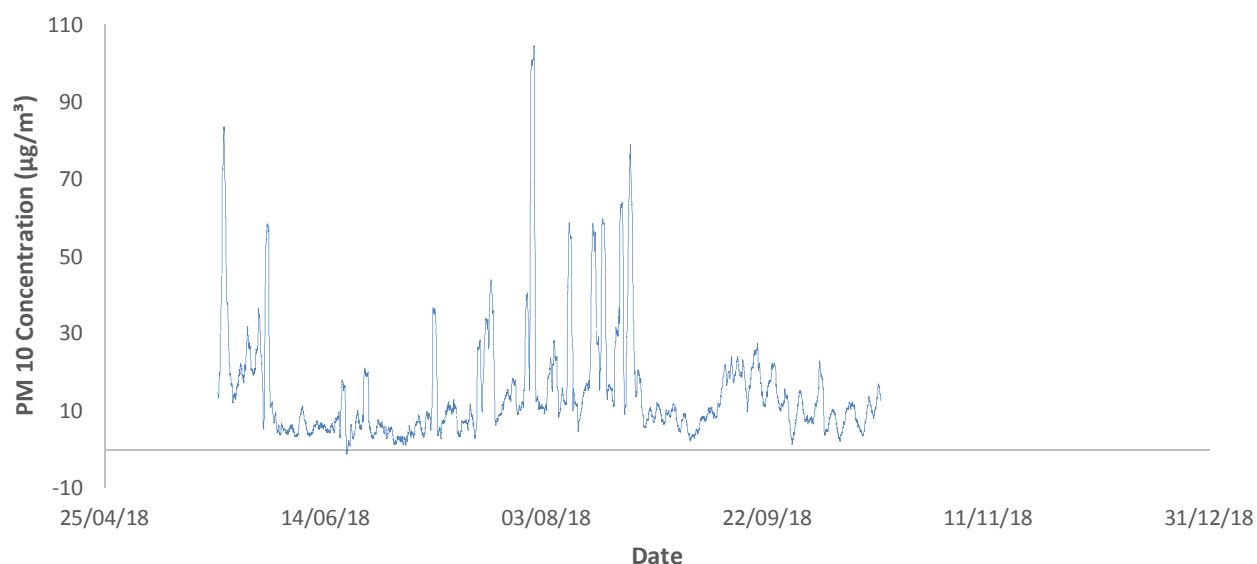
Environmental Protection Licence No: 1087

Licensed Point No: 14

Location: Jersey Farm Road

Type of Monitoring: Particulate Matter 10 $\mu\text{g}/\text{m}^3$

Monitoring Frequency: Continuous



Note: No data available for the period between 18/10/18 – 31/12/18 due to power failure at the BAM site. Figure shows the 24 hour rolling average PM10 concentration in micrograms per meter cubed from the Wongawilli BAM.



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13 LICENSED DISCHARGE VOLUMES

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Discharge Point No: 1

Location: Secondary Stabilisation Lagoon; STP Discharge

Type of Monitoring: Volume of liquid discharge

Monitoring Frequency: Continuous

EPL Volume and Mass limits: 30kL/d

Monitoring Period	Discharging	Date Published	Average Flow (kL/d)	Max Flow (kL/d)	Comments
January	No				*
February	No				*
March	No				*
April	No				*
May	No				*
June	No				*
July	No				*
August	No				*
September	No				*
October	No				*
November	No				*
December	No				*

* Water was not discharged via this point during the period



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14 LICENSED DISCHARGE VOLUMES

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Discharge Point No: 2

Location: Mine-water discharge at Transport Portal

Type of Monitoring: Volume of liquid discharge

Monitoring Frequency: Continuous

EPL Volume and Mass limits: 10,000kL/d

Monitoring Period	Discharging	Date Published	Average Flow (kL/d)	Max Flow (kL/d)	Comments
January	Yes	18/07/18	1915.40	3368.47	
February	Yes	18/07/18	2597.11	3250.66	
March	Yes	18/07/18	1951.21	3188.78	
April	Yes	18/07/18	2238.77	3209.30	
May	Yes	18/07/18	1435.59	3364.64	
June	Yes	18/07/18	2807.49	4388.83	
July	Yes	09/10/18	2908.89	4737.57	
August	Yes	09/10/18	1824.97	3523.43	
September	Yes	09/10/18	787.08	3345.71	
October	Yes	13/11/18	1385.80	2724.50	
November	Yes	27/02/19	2018.45	2994.56	
December	Yes	27/02/19	1609.08	2200.57	



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15 LICENSED DISCHARGE VOLUMES

Name of Licensee: Wollongong Coal Limited

Address of Premises: Jersey Farm Road, West Dapto, NSW 2530

Environmental Protection Licence No: 1087

Licensed Discharge Point No: 8

Location: Hunter 2 Dam – old portal

Type of Monitoring: Volume of liquid discharge

Monitoring Frequency: Continuous

EPL Volume and Mass limits: 2500 kL/d

Monitoring Period	Discharging	Date Published	Average Flow (kL/d)	Max Flow (kL/d)	Comments
January	No				*
February	No				*
March	No				*
April	No				*
May	No				*
June	No				*
July	No				*
August	No				*
September	No				*
October	No				*
November	No				*
December	No				*

* Water was not discharged via this point during the period.