

Site	Wongawilli Colliery	DOC ID	
Type	Report	Date Published	22/05/2015
Doc Title	WWC EPL 1087 MONTHLY MONITORING REPORT		

WONGAWILLI COLLIERY

MONTHLY MONITORING REPORT

ENVIRONMENTAL PROTECTION LICENCE NO: 1087



## GLOSSARY OF TERMS AND ABBREVIATIONS

Abbreviations	
EPL	Environmental Protection Licence
KL/d	Kilolitres per day
mg/L	Milligrams per litre

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.

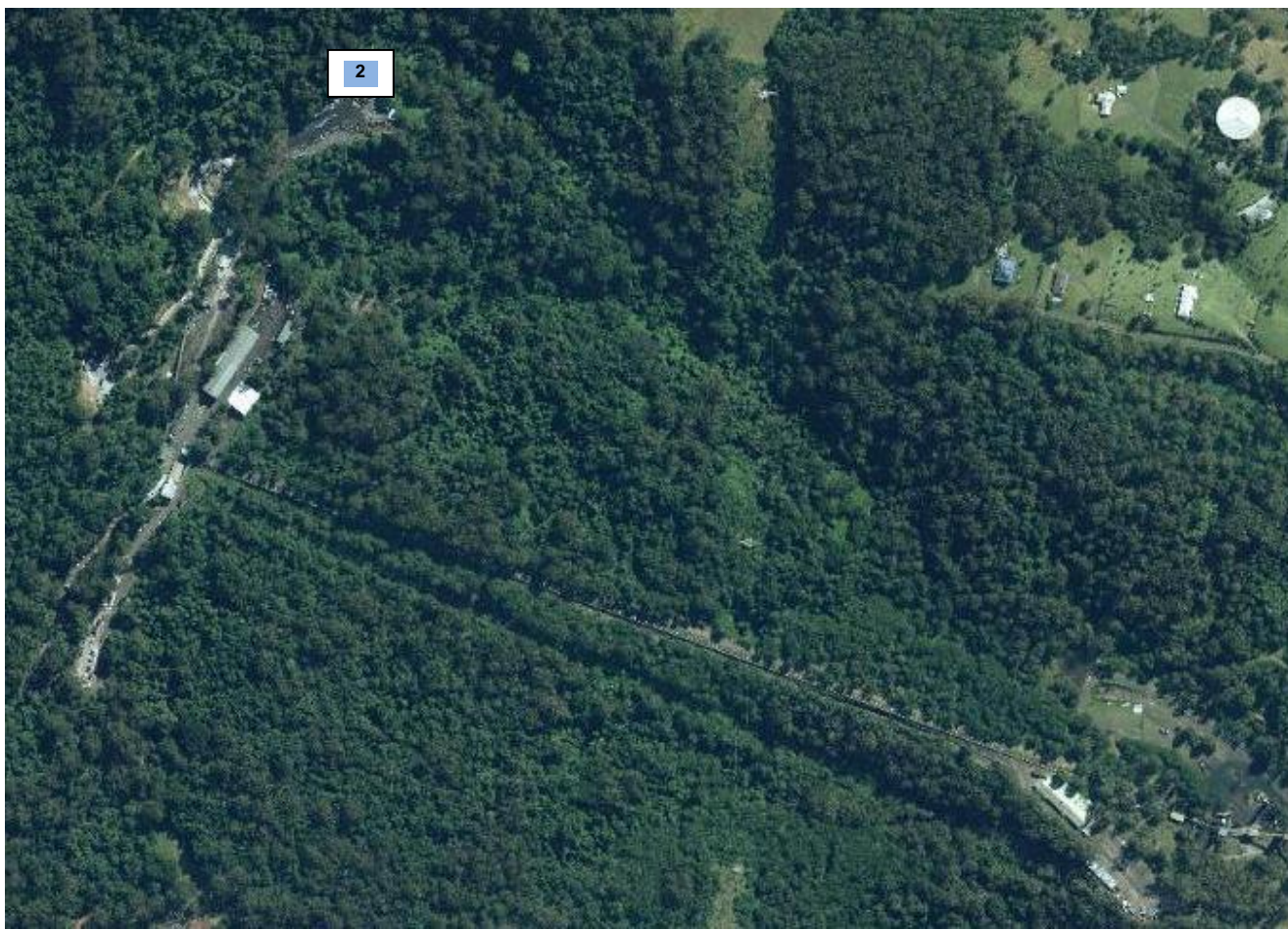
## 1 WONGAWILLI COLLIERY EPL MONITORING LOCATION POINTS



**Figure 1 - Licensed Monitoring and Discharge Points at Wongawilli**

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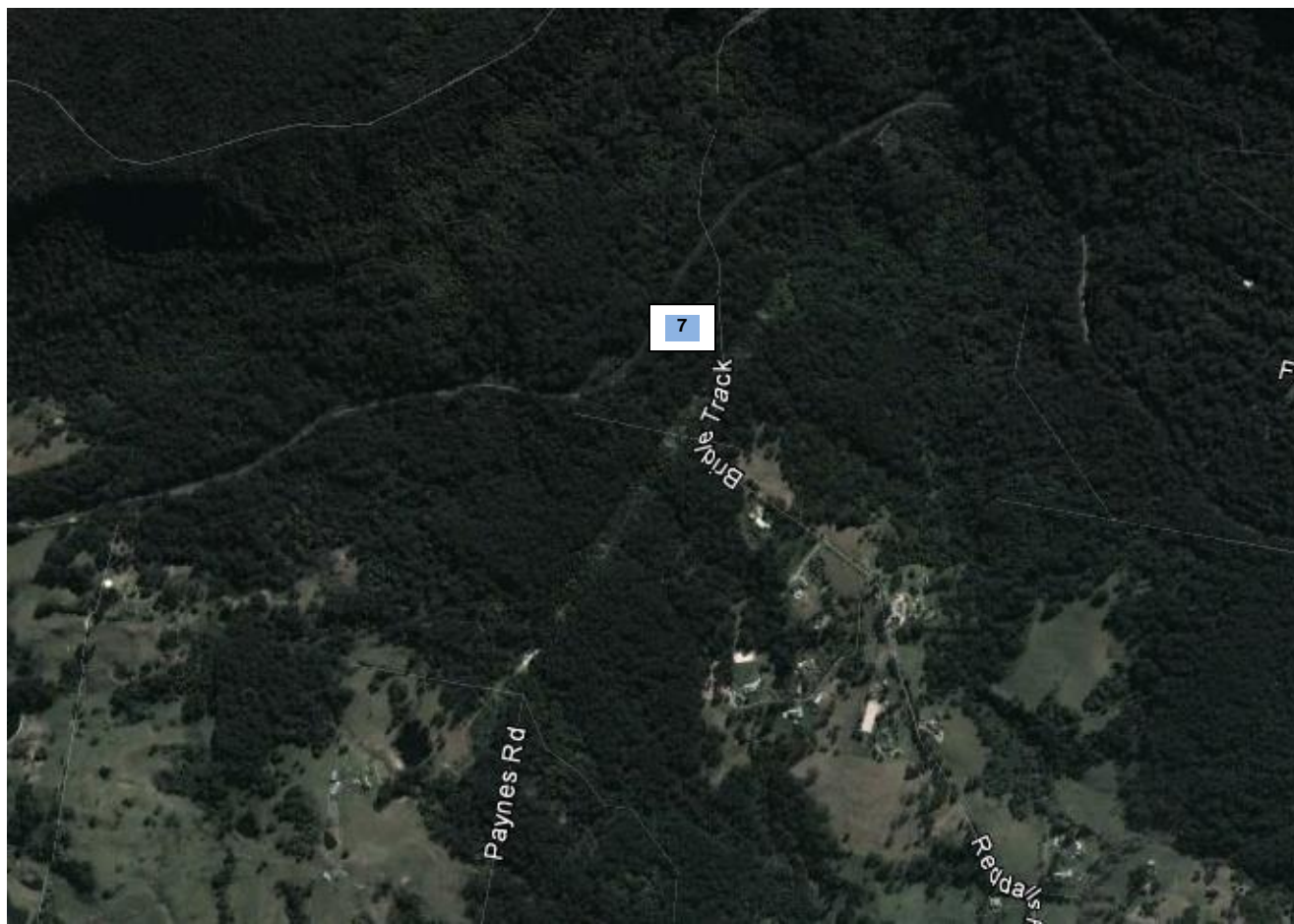
## 2 WONGAWILLI COLLIERY EPL MONITORING LOCATION POINTS



**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

**Person Sampling:** K. Lee/S. Cugalj

**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

**Person Sampling:** K. Lee/S. Cugalj

**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	06/08/14	28/08/14	Yes	3:00 PM	76**	7.9	<5	
July	06/08/14	28/08/14	Yes	8:30 AM	<5	8.4	<5	
August			No					*
September	16/09/14	30/09/14	Yes	10:10 AM	5	8.4	<5	
October			Yes					***
November	03/11/14	1/12/14	Yes	08:20 AM	38	8.5	<5	
December	23/12/14	22/05/15	Yes	07:15 AM	12	8.4	<5	

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

\*\*Sample was not representative. The pump out line was not active since May 2011

\*\*\*Sample was not taken due to intermittent discharge

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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:** 3

**Location:** Underflow from Filter Pond

**Monitoring Frequency:** Monthly during discharge

**Person Sampling:** K. Lee/S. Cugalj

**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 via this point during the period. This discharge point has been capped

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## 7 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

**Person Sampling:** K. Lee/S. Cugalj

**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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## 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:** 9

**Location:** South Western Boundary

**Monitoring Frequency:** Monthly

**Name of Testing Laboratory:** ALS Laboratory Group

**Nata Registered:** Yes

### MONTHLY RESULTS (g/m<sup>2</sup>/month)

Sample Period	Date of results obtained	Date Published	Ash	Combustible Solids	Insoluble Solids	Comments
January	19/02/14	20/02/14	0.3	0.1	0.4	
February	07/03/14	15/07/14*	0.8	1.4	2.2	
March	10/04/14	15/07/14*	8.4	1.6	10	**
April	14/05/14	15/07/14*	0.3	0.8	1.1	
May	16/06/14	15/07/14*	0.2	0.1	0.3	
June	22/07/14	15/07/14	0.2	<0.1	0.2	
July	18/08/14	28/08/14	0.1	0.1	0.2	
August	22/09/14	30/09/14	2.3	4.0	6.3	***
September	22/10/14	31/10/14	0.3	0.2	0.5	
October	19/11/14	01/12/14	0.2	0.3	0.5	
November	22/05/15	22/05/15	1.0	0.4	1.4	
December	22/05/15	22/05/15	0.5	0.2	0.7	

\*New website was under construction

\*\*Results were higher due to dirt. Confirmed during visual analysis of dust

\*\*\*Results were higher due to dirt and insects. Confirmed during visual analysis of dust

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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:** 10

**Location:** Wongawilli Mine Bins

**Monitoring Frequency:** Monthly

**Name of Testing Laboratory:** ALS Laboratory Group

**Nata Registered:** Yes

### MONTHLY RESULTS (g/m<sup>2</sup>/month)

Sample Period	Date of results obtained	Date Published	Ash	Combustible Solids	Insoluble Solids	Comments
January	19/02/14	20/02/14	0.3	0.4	0.7	
February	07/03/14	15/07/14*	0.4	0.5	0.9	
March	10/04/14	15/07/14*	0.2	0.3	0.5	
April	14/05/14	15/07/14*	0.2	0.3	0.5	
May	16/06/14	15/07/14*	0.2	0.6	0.8	
June	22/07/14	15/07/14	0.1	0.3	0.4	
July	18/08/14	28/08/14	0.2	<0.1	0.2	
August	22/09/14	30/09/14	0.3	0.4	0.7	
September	22/10/14	31/10/14	0.3	0.2	0.5	
October	19/11/14	01/12/14	0.5	0.5	1.0	
November	22/05/15	22/05/15	1.2	1.3	2.5	
December	22/05/15	22/05/15	0.5	0.3	0.8	

\*New website was under construction

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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:** 11

**Location:** Wongawilli Village (behind old school)

**Monitoring Frequency:** Monthly

**Name of Testing Laboratory:** ALS Laboratory Group

**Nata Registered:** Yes

### MONTHLY RESULTS (g/m<sup>2</sup>/month)

Sample Period	Date of results obtained	Date Published	Ash	Combustible Solids	Insoluble Solids	Comments
January	19/02/14	20/02/14	1.0	1.0	2.0	
February	07/03/14	15/07/14*	0.5	0.8	1.3	
March	10/04/14	15/07/14*	1.7	1.4	3.1	
April	14/05/14	15/07/14*	1.4	1.6	3.0	
May	16/06/14	15/07/14*	0.7	1.1	1.8	
June	22/07/14	15/07/14	0.4	1.0	1.4	
July	18/08/14	28/08/14	0.3	0.1	0.4	
August	22/09/14	30/09/14	0.8	1.1	1.9	
September	22/10/14	31/10/14	0.3	0.2	0.5	
October	19/11/14	01/12/14	0.3	0.2	0.5	
November	22/05/15	22/05/15	1.0	0.6	1.6	
December	22/05/15	22/05/15	2.7	3.3	6.6	**

\*New website was under construction

\*\*Results were higher due to insects, dirt and polysaccharide slime. Confirmed during visual analysis of dust

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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:** 12

**Location:** Shone Ave

**Monitoring Frequency:** Monthly

**Name of Testing Laboratory:** ALS Laboratory Group

**Nata Registered:** Yes

### MONTHLY RESULTS (g/m<sup>2</sup>/month)

Sample Period	Date of results obtained	Date Published	Ash	Combustible Solids	Insoluble Solids	Comments
January	19/02/14	20/02/14	0.4	0.5	0.9	
February	07/03/14	15/07/14*	0.7	0.9	1.6	
March	10/04/14	15/07/14*	0.3	0.2	0.5	
April	14/05/14	15/07/14*	0.3	0.3	0.6	
May	16/06/14	15/07/14*	0.4	0.3	0.7	
June	22/07/14	15/07/14	0.1	<0.1	0.1	
July	18/08/14	28/08/14	0.3	0.1	0.4	
August	22/09/14	30/09/14	0.3	0.3	0.6	
September	22/10/14	31/10/14	1.5	0.3	1.8	
October	19/11/14	01/12/14	0.9	0.5	1.4	
November	22/05/15	22/05/15	1.2	0.3	1.5	
December	22/05/15	22/05/15	1.1	2.0	3.1	

\*New website was under construction

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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:** 13

**Location:** West Dapto Rd/Bong Bong Rd

**Monitoring Frequency:** Monthly

**Name of Testing Laboratory:** ALS Laboratory Group

**Nata Registered:** Yes

### MONTHLY RESULTS (g/m<sup>2</sup>/month)

Sample Period	Date of results obtained	Date Published	Ash	Combustible Solids	Insoluble Solids	Comments
January	19/02/14	20/02/14	0.4	0.4	0.8	
February	07/03/14	15/07/14*	0.4	0.5	0.9	
March	10/04/14	15/07/14*	0.8	3.7	4.5	**
April	14/05/14	15/07/14*	0.2	0.3	0.5	
May	16/06/14	15/07/14*	0.6	0.9	1.5	
June	22/07/14	15/07/14	0.2	<0.1	0.2	
July	18/08/14	28/08/14	0.3	<0.1	0.3	
August	22/09/14	30/09/14	0.3	0.2	0.5	
September	22/10/14	31/10/14	0.4	0.1	0.5	
October	19/11/14	01/12/14	1.4	1.6	3.0	
November	22/05/15	22/05/15	2.3	1.9	4.2	**
December	22/05/15	22/05/15	1.0	2.0	3.0	

\*New website was under construction

\*\*Results were higher due to insects, dirt and polysaccharide slime. Confirmed during visual analysis of dust



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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:** 30 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

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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:** 10,000 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	Yes	28/08/14	16.22	61.77	
July	Yes	28/08/14	29.78	379.43	
August	No				*
September	Yes	30/10/15	69.12	172.8	
October	Yes	01/12/14	29.76	321.61	
November	Yes	22/05/15	154.35	825.96	
December	Yes	22/05/15	157.39	735.73	

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



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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. This discharge point has been capped