

Monthly Data Summary

Environmental Protection Licence 779

AGL Macquarie - Bayswater Power Station



Monitoring Period

NOVEMBER 2022

Discharge & Monitoring Point 3

Air emission monitoring - Combined air emissions from boiler 1 via Points 7 and 8 to Point 1

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample values	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m ³	Continuous	100.0%	266.9	559.7	829.4	1500 mg/m ³
Sulfur dioxide	mg/m ³	Continuous	100.0%	633.6	971.9	1267.0	1700 mg/m ³

In addition to the 100th percentile concentration limits, 99th percentile concentration limits of 1100 mg/m³ and 1400 mg/m³ apply to Nitrogen oxides and Sulfur dioxide, respectively .

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m ³	Six monthly	24/08/2021	0.000150	0.2 mg/m ³
Chlorine	mg/m ³	Six monthly	24/08/2021	0.007600	20 mg/m ³
Fluorine	mg/m ³	Six monthly	24/08/2021	8.3	20 mg/m ³
Hydrogen chloride	mg/m ³	Six monthly	24/08/2021	12.0	50 mg/m ³
Mercury	mg/m ³	Six monthly	24/08/2021	0.0023	0.05 mg/m ³
Solid Particles	mg/m ³	Quarterly	12/10/2021	16.11	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO ₃)	mg/m ³	Six monthly	24/08/2021	1.70	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m ³	Six monthly	24/08/2021	0.009	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m ³	Six monthly	24/08/2021	0.05	10 mg/m ³

Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrations for some substances may be reported as less than the relevant Limit of Detection, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.

The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

EPA Identification Number 4

Air emission monitoring - Combined air emissions from boiler 2 via Points 9 and 10 to Point 1

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample values	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m ³	Continuous	100.00%	337.3	599.6	781.3	1500 mg/m ³
Sulfur Dioxide	mg/m ³	Continuous	100.00%	607.3	859.9	1164.8	1700 mg/m ³

In addition to the 100th percentile concentration limits, 99th percentile concentration limits of 1100 mg/m³ and 1400 mg/m³ apply to Nitrogen oxides and Sulfur dioxide, respectively .

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m ³	Six monthly	22/09/2021	0.000125	0.2 mg/m ³
Chlorine	mg/m ³	Six monthly	22/09/2021	0.003500	20 mg/m ³
Fluorine	mg/m ³	Six monthly	22/09/2021	15.0	20 mg/m ³
Hydrogen chloride	mg/m ³	Six monthly	22/09/2021	26.0	50 mg/m ³
Mercury	mg/m ³	Six monthly	22/09/2021	0.0024	0.05 mg/m ³
Solid Particles	mg/m ³	Quarterly	3/11/2021	7.13	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO ₃)	mg/m ³	Six monthly	22/09/2021	4.90	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m ³	Six monthly	22/09/2021	0.0070	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m ³	Six monthly	22/09/2021	0.03	10 mg/m ³

Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrations for some substances may be reported as less than the relevant Limit of Detection, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.

The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

EPA Identification Number 5

Air emission monitoring - Combined air emissions from boiler 3 via Points 11 and 12 to Point 2

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample values	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m ³	Continuous	100.00%	266.6	729.5	1099.5	1500 mg/m ³
Sulfur Dioxide	mg/m ³	Continuous	100.00%	564.9	923.2	1260.7	1700 mg/m ³
Out of service							

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m ³	Six monthly	29/09/2021	0.000100	0.2 mg/m ³
Chlorine	mg/m ³	Six monthly	29/09/2021	0.003000	20 mg/m ³
Fluorine	mg/m ³	Six monthly	29/09/2021	15.0	20 mg/m ³
Hydrogen chloride	mg/m ³	Six monthly	29/09/2021	19.0	50 mg/m ³
Mercury	mg/m ³	Six monthly	29/09/2021	0.0020	0.05 mg/m ³
Solid Particles	mg/m ³	Quarterly	4/11/2021	6.66	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO ₃)	mg/m ³	Six monthly	29/09/2021	4.80	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m ³	Six monthly	29/09/2021	0.009	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m ³	Six monthly	29/09/2021	0.10	10 mg/m ³
<p>Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrations for some substances may be reported as less than the relevant Limit of Detection, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.</p> <p>The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.</p>					

EPA Identification Number 6

Air emission monitoring - Combined air emissions from boiler 4 via Points 13 and 14 to Point 2

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample values	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m ³	Continuous		0.0		0.0	1500 mg/m ³
Sulfur Dioxide	mg/m ³	Continuous		0.0		0.0	1700 mg/m ³
<p>In addition to the 100th percentile concentration limits, 99th percentile concentration limits of 1100 mg/m³ and 1400 mg/m³ apply to Nitrogen oxides and Sulfur dioxide, respectively .</p>							

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m ³	Six monthly	27/08/2021	0.000125	0.2 mg/m ³
Chlorine	mg/m ³	Six monthly	27/08/2021	0.007100	20 mg/m ³
Fluorine	mg/m ³	Six monthly	27/08/2021	7.9	20 mg/m ³
Hydrogen chloride	mg/m ³	Six monthly	27/08/2021	16.0	50 mg/m ³
Mercury	mg/m ³	Six monthly	27/08/2021	0.0013	0.05 mg/m ³
Solid Particles	mg/m ³	Quarterly	13/10/2021	16.55	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO ₃)	mg/m ³	Six monthly	27/08/2021	7.60	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m ³	Six monthly	27/08/2021	0.006	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m ³	Six monthly	27/08/2021	0.04	10 mg/m ³
<p>Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrations for some substances may be reported as less than the relevant Limit of Detection, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.</p> <p>The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.</p>					

EPA Identification Number 7

Air emission monitoring - Boiler number 1 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continuous	100.00%	266.9	559.7	829.4
Sulfur Dioxide	mg/m3	Continuous	100.00%	633.6	971.9	1267.0
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	percent	degrees Celsius				

Pollutant	Unit of measure	No. of samples required by licence	# No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	24/08/2021	<0.0003
Chlorine	mg/m3	Six monthly	2	24/08/2021	0.0076
Fluorine	mg/m3	Six monthly	2	24/08/2021	8.3
Hydrogen chloride	mg/m3	Six monthly	2	24/08/2021	12
Mercury	mg/m3	Six monthly	2	24/08/2021	0.0014
Solid Particles	mg/m3	Quarterly	4	5/04/2022	13
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	2	4/05/2021	2.4
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	24/08/2021	<0.021
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	4/05/2021	<0.09
Carbon dioxide	percent	Six monthly	2	24/08/2021	9.6

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 8

Air emission monitoring - Boiler number 1 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	1/10/2019	<0.0003
Mercury	mg/m3	Six monthly	2	24/08/2021	0.0031
Solid Particles	mg/m3	Quarterly	4	5/04/2022	16
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	24/08/2021	<0.016

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 9

Air emission monitoring - Boiler number 2 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	25/10/2018	<0.0002
Mercury	mg/m3	Six monthly	2	22/09/2021	0.0028
Solid Particles	mg/m3	Quarterly	4	3/11/2021	6.2
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	22/09/2021	<0.014

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 10

Air emission monitoring - Boiler number 2 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continuous	100.00%	337.3	599.6	781.3
Sulfur Dioxide	mg/m3	Continuous	100.00%	607.3	859.9	1164.8
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	23/09/2020	<0.0003
Chlorine	mg/m3	Six monthly	2	21/09/2021	<0.007
Fluorine	mg/m3	Six monthly	2	21/09/2021	15
Hydrogen chloride	mg/m3	Six monthly	2	21/09/2021	26
Mercury	mg/m3	Six monthly	2	21/09/2021	0.002
Solid Particles	mg/m3	Quarterly	4	3/11/2021	8.1
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	2	26/11/2020	2.4
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	2/03/2021	<0.014
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	21/09/2021	<0.05
Carbon dioxide	percent	Six monthly	2	21/09/2021	11.7

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 11

Air emission monitoring - Boiler number 3 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continuous	100.00%	266.6	729.5	1099.5
Sulfur Dioxide	mg/m3	Continuous	100.00%	564.9	923.2	1260.7
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	2/04/2019	<0.0002
Chlorine	mg/m3	Six monthly	2	29/09/2021	<0.006
Fluorine	mg/m3	Six monthly	2	29/09/2021	15
Hydrogen chloride	mg/m3	Six monthly	2	29/09/2021	19
Mercury	mg/m3	Six monthly	2	29/09/2021	0.0018
Solid Particles	mg/m3	Quarterly	4	4/11/2021	4.7
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	2	5/05/2021	4
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	29/09/2021	<0.016
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	29/09/2021	0.095
Carbon dioxide	percent	Six monthly	2	29/09/2021	10.7

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 12

Air emission monitoring - Boiler number 3 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	26/05/2020	<0.0002
Mercury	mg/m3	Six monthly	2	30/09/2021	0.0021
Solid Particles	mg/m3	Quarterly	4	4/11/2021	8.5
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	30/09/2021	<0.019

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test.
 # Number of samples from the duct in the year to date

EPA Identification Number 13

Air emission monitoring - Boiler number 4 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	22/09/2020	<0.0002
Mercury	mg/m3	Six monthly	2	27/08/2021	0.0005
Solid Particles	mg/m3	Quarterly	4	27/04/2022	5.3
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	27/08/2021	<0.0091

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.
 # Number of samples from the duct in the year to date

EPA Identification Number 14

Air emission monitoring - Boiler number 4 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continuous				
Sulfur Dioxide	mg/m3	Continuous				
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	22/09/2020	<0.0003
Chlorine	mg/m3	Six monthly	2	26/08/2021	0.0071
Fluorine	mg/m3	Six monthly	2	26/08/2021	7.9
Hydrogen chloride	mg/m3	Six monthly	2	26/08/2021	16
Mercury	mg/m3	Six monthly	2	26/08/2021	0.0021
Solid Particles	mg/m3	Quarterly	4	27/04/2022	3.7
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	2	6/05/2021	3.8
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	4/03/2021	<0.016
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	26/08/2021	<0.08
Carbon dioxide	percent	Six monthly	2	26/08/2021	10.8

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.
 # Number of samples from the duct in the year to date

Discharge & Monitoring Point 19

Discharge to waters - Discharge quality monitoring, Volume monitoring

Discharge from cooling towers to Tinkers Creek, marked and shown as EPL Monitors ID No. 19 on The Plans

Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Conductivity	uS/cm	Continuous during discharge	97.15%	183	2941	3720	4500 uS/cm
Oil and Grease	mg/L	Fortnightly	3	<2	1	<2	10 mg/L
pH	pH Units	Continuous	97.16%	6.9	8.0	8.4	6.5 - 9.0
Volume discharge	Megalitres per month	Continuous during discharge	30		404.0		840 ML

Discharge & Monitoring Point 20

Discharge to waters - Discharge quality monitoring, Volume monitoring

Discharge from main station oil and water separator holding basin to Tinkers Creek marked and shown as EPL Monitors ID No. 20 on The Plans

Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Oil and Grease	mg/L	Fortnightly	5	<2	1	3	10 mg/L
Total suspended solids	mg/L	Fortnightly	5	<5	4	8	30 mg/L
Volume discharge	kilolitres per week	Continuous during discharge	4	0	15,153	19,967	36,400 kL

Discharge & Monitoring Point 21

Discharge to waters - Discharge quality monitoring, Volume monitoring

Discharge from Bayswater Ash Dam unlined flood spillway (located near left abutment) to Chilcotts Creek marked and shown as EPL Monitors ID No. 21 on The Plans

Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Boron	mg/L	Weekly during any discharge	5	0.28	1.87	2.82	
Cadmium	mg/L	Weekly during any discharge	5	<0.0001	0.0001	0.0001	
Conductivity	uS/cm	Continuous during discharge	5	912	912	912	-
Copper	mg/L	Weekly during any discharge	5	<0.001	0.002	0.006	
Iron	mg/L	Weekly during any discharge	5	0.41	1.628	5.98	
Molybdenum	mg/L	Weekly during any discharge	5	0.009	0.140	0.21	
Nickel	mg/L	Weekly during any discharge	5	0.01	0.028	0.04	
pH	pH Units	Weekly during any discharge	5	7.4	7.6	7.7	
Silver	mg/L	Weekly during any discharge	5	<0.001	0.0005	<0.001	
Volume discharge	Kilolitres per day	Daily during any discharge	30	1364	1364	1364	

Discharge & Monitoring Point 22

Discharge to waters - Volume monitoring

Discharge of recirculated water from the Hunter River to Lake Liddell marked and shown as EPL Monitors ID No. 22 on The Plans

Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Volume discharge	Megalitres per day	Continuous during discharge	30	31	48	51	

Discharge & Monitoring Point 23

Discharge of saline water under the Hunter River Salinity Trading Scheme, Discharge water quality monitoring, Volume monitoring

Discharge of saline wates from discharge pipe from the Lake Liddell dam wall marked and shown as EPL Monitors ID No. 23 on The Plans

Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Conductivity	uS/cm	Continuous during discharge	100%	2590	2616	2630	-
pH	pH Units	Weekly during any discharge	2	8.1	8.1	8.1	6.5 - 8.5
Total suspended solids	mg/L	Monthly during discharge	1	<5	3	2.5	30 mg/L
Volume discharge	Megalitres per day	Continuous during discharge	9	335	537	639	700 ML

Discharge & Monitoring Point 24

Discharge of saline waters from inlet pipe located at the Void 4 pontoon pump system marked and shown as EPL Monitors ID NO. 24 on The Plans

Discharge of saline wates from discharge pipe from the Lake Liddell dam wall marked and shown as EPL Monitors ID No. 23 on The Plans

Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Boron	mg/L	Weekly duirng any discharge	0				0.81 mg/L
Cadmium	mg/L	Weekly duirng any discharge	0				0.0003 mg/L
Copper	mg/L	Weekly duirng any discharge	0				0.001 mg/L
Conductivity	uS/cm	Continuous during discharge	0				-
Iron	mg/L	Weekly duirng any discharge	0				0.27 mg/L
Molybdenum	mg/L	Weekly duirng any discharge	0				0.29 mg/L
Nickel	mg/L	Weekly duirng any discharge	0				0.019 mg/L
pH	pH Units	Weekly duirng any discharge	0				6.5 - 9.5
Silver	mg/L	Weekly duirng any discharge	0				0.0005 mg/L
Total suspended solids	mg/L	Monthly during discharge	0				30 mg/L
Volume discharge	Megalitres per day	Continuous during discharge	0				20 ML

Discharge did not occur**Details of Non-Compliance with Licence Conditions**

Licence condition number not complied with

M9.1

To be determined

Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)

One weekly reading of volume meter was unable to be taken from EPL point 21 during November.

Overflow of water from the Lake Liddell dam wall seepage return pit 1 towards Bayswater Creek

If required, further details on particulars of non-compliance

An estimated meter reading was utilised for this report

Date(s) when the non-compliance occurred, if applicable

Approximately 14 November 2022

25/11/2022

If relevant, precise location where the non-compliance occurred (attach a map or diagram)

If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance

N/A

Cause of non-compliance

Due to low operator numbers the during this period and the reading was not taken.

Failure of the pump servicing the Lake Liddell dam wall seepage return pit 2.

Action taken or that will be taken to mitigate any adverse effects of the non-compliance

N/A

N/A

Action taken or that will be taken to prevent a recurrence of the non-compliance

Correct staffing has since resumed and readings taken, the two week reading was utilised to estimate the weekly reading for the purpose of this report.

An additional diesel pump is on standby. Daily checks of the system are being undertaken. An investigation into the design and performance of the system is being undertaken. In addition, AGL Macquarie is conducting a review to identify whether there are any further reasonable and feasible means to increase redundancy and ensure the ongoing availability of the Seepage Works.