



01-Jan-24 12:00:00 AM 01-Feb-24 12:00:00 AM

## Monthly Data Summary AGL Macquarie - Bayswater Power Station Environmental Protection License: EPL779

#### Combined air emissions from boiler 1 via Points 7 and 8 to Point 1 marked and shown as EPL Monitors ID No. 3 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value	100th percentile concentration limits
NOx	mg/m3	Continuous when generating	100.00%	279.99	543.09	747.51	1500 mg/m3
SO2	mg/m3	Continuous when generating	100.00%	550.69	1,102.29	1,437.51	1700 mg/m3



 Start Of Month
 EndDate

 01-Jan-24 12:00:00 AM
 01-Feb-24 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	11/07/2023 9:10:00 AM	0.00250	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	11/07/2023 1:20:00 PM	0.01000	20 mg/m3
Fluorine	mg/m3	Every 6 months	11/07/2023 1:20:00 PM	11.00000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	11/07/2023 1:20:00 PM	10.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	11/07/2023 9:10:00 AM	0.00140	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	11/07/2023 9:10:00 AM	6.80000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	18/07/2023 7:45:00 AM	7.80000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	11/07/2023 9:10:00 AM	0.01500	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	11/07/2023 2:20:00 PM	0.26000	10 mg/m3

#### Combined air emissions from boiler 2 via Points 9 and 10 to Point 1 marked and shown as EPL Monitors ID No. 4 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value	100th percentile concentration limits
NOx	mg/m3	Continuous when generating	99.86%	224.55	523.63	758.90	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.86%	786.53	1,185.22	1,431.38	1700 mg/m3



Start Of Month	EndDate ▼
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	12/07/2023 8:13:00 AM	0.00035	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	12/07/2023 12:00:00 PM	0.03700	20 mg/m3
Fluorine	mg/m3	Every 6 months	12/07/2023 12:00:00 PM	17.00000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	12/07/2023 12:00:00 PM	18.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	12/07/2023 8:13:00 AM	0.00280	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	10/10/2023 8:20:00 AM	4.30000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	18/07/2023 12:10:00 PM	5.50000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	12/07/2023 8:13:00 AM	0.01000	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	12/07/2023 12:52:00 PM	0.07000	10 mg/m3

#### Combined air emissions from boiler 3 via Points 11 and 12 to Point 2 marked and shown as EPL Monitors ID No. 5 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value	100th percentile concentration limits
NOx	mg/m3	Continuous when generating	99.87%	170.10	489.81	773.60	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.87%	800.18	1,070.84	1,332.15	1700 mg/m3



Start Of Month	EndDate ▼
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	13/07/2023 8:00:00 AM	0.00020	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	13/07/2023 12:05:00 PM	0.04400	20 mg/m3
Fluorine	mg/m3	Every 6 months	13/07/2023 12:05:00 PM	15.00000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	13/07/2023 12:05:00 PM	11.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	13/07/2023 8:00:00 AM	0.00430	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	11/10/2023 7:45:00 AM	9.30000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	19/07/2023 12:33:00 PM	8.10000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	13/07/2023 8:00:00 AM	0.03000	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	13/07/2023 1:03:00 PM	0.06700	10 mg/m3

#### Combined air emissions from boiler 4 via Points 13 and 14 to Point 2 marked and shown as EPL Monitors ID No. 6 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value	100th percentile concentration limits
NOx	mg/m3	Continuous when generating	99.81%	193.29	515.46	809.83	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.81%	866.81	1,118.97	1,361.97	1700 mg/m3



Start Of Month	EndDate ▼
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	14/07/2023 8:10:00 AM	0.00020	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	14/07/2023 11:38:00 AM	0.03800	20 mg/m3
Fluorine	mg/m3	Every 6 months	14/07/2023 11:38:00 AM	22.00000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	14/07/2023 11:38:00 AM	19.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	14/07/2023 8:10:00 AM	0.00320	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	12/10/2023 7:30:00 AM	3.90000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	19/07/2023 7:35:00 AM	3.20000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	14/07/2023 8:10:00 AM	0.03000	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	14/07/2023 12:34:00 PM	0.10000	10 mg/m3

Boiler number 1 exhaust - duct A marked and shown as EPL Monitors ID No. 7 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	100.00%	265.67	508.57	700.11
SO2	mg/m3	Continuous when generating	100.00%	840.37	1,066.28	1,367.40



Start Of Month	EndDate ▼			
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM			

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	3	11/07/2023 9:10:00 AM	0.00015
Chlorine	mg/m3	Every 6 months	3	11/07/2023 1:20:00 PM	0.01000
CO2	%	Every 6 months	12	18/07/2023 7:54:00 AM	8.70000
Fluorine	mg/m3	Every 6 months	3	11/07/2023 1:20:00 PM	11.00000
Hydrogen Chloride	mg/m3	Every 6 months	3	11/07/2023 1:20:00 PM	10.00000
Mercury	mg/m3	Every 6 months	3	11/07/2023 9:10:00 AM	0.00063
Solid Particles	mg/m3	Quarterly	5	11/07/2023 9:10:00 AM	6.70000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	3	18/07/2023 7:45:00 AM	7.80000
Type 1&2 Substances	mg/m3	Every 6 months	3	11/07/2023 9:10:00 AM	0.00750
Volatile Organic Compounds	mg/m3	Every 6 months	3	11/07/2023 2:20:00 PM	0.26000

Boiler number 1 exhaust - duct B marked and shown as EPL Monitors ID No. 8 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	99.86%	299.59	578.44	805.17
SO2	mg/m3	Continuous when generating	99.86%	862.75	1,139.86	1,507.46



Start Of Month	EndDate ▼		
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM		

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	3	11/07/2023 9:35:00 AM	0.00910
CO2	%	Every 6 months	6	11/07/2023 9:35:00 AM	10.00000
Mercury	mg/m3	Every 6 months	3	11/07/2023 9:35:00 AM	0.00210
Solid Particles	mg/m3	Quarterly	5	11/07/2023 9:35:00 AM	6.90000
Type 1&2 Substances	mg/m3	Every 6 months	3	11/07/2023 9:35:00 AM	0.02000

Boiler number 2 exhaust - duct A marked and shown as EPL Monitors ID No. 9 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	99.73%	227.60	554.12	777.39
SO2	mg/m3	Continuous when generating	99.73%	685.87	1,260.05	1,488.85



Start Of Month	EndDate ▼
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Year Count Samples	Year Date of Sample	Year last measurement
Cadmium	mg/m3	Every 6 months	3	12/07/2023 8:13:00 AM	0.00120
CO2	%	Every 6 months	8	10/10/2023 12:25:00 PM	10.60000
Mercury	mg/m3	Every 6 months	3	12/07/2023 8:13:00 AM	0.00260
Solid Particles	mg/m3	Quarterly	6	10/10/2023 8:20:00 AM	7.00000
Type 1&2 Substances	mg/m3	Every 6 months	2	16/02/2023 8:12:00 AM	0.01050

#### Boiler number 2 exhaust - duct B marked and shown as EPL Monitors ID No. 10 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	99.46%	122.42	492.74	740.51
SO2	mg/m3	Continuous when generating	99.46%	468.73	1,110.91	1,470.75



Start Of Month	EndDate
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Antimony	mg/m3	Every 6 months	3	12/07/2023 7:50:00 AM	0.00100
Cadmium	mg/m3	Every 6 months	3	12/07/2023 7:50:00 AM	0.00015
Chlorine	mg/m3	Every 6 months	3	12/07/2023 12:00:00 PM	0.03700
CO2	%	Every 6 months	14	10/10/2023 12:28:00 PM	9.90000
Fluorine	mg/m3	Every 6 months	3	12/07/2023 12:00:00 PM	17.00000
Hydrogen Chloride	mg/m3	Every 6 months	3	12/07/2023 12:00:00 PM	18.00000
Mercury	mg/m3	Every 6 months	3	12/07/2023 7:50:00 AM	0.00290
Solid Particles	mg/m3	Quarterly	6	10/10/2023 8:20:00 AM	2.00000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	3	18/07/2023 12:10:00 PM	5.50000
Type 1&2 Substances	mg/m3	Every 6 months	3	12/07/2023 7:50:00 AM	0.01100
Volatile Organic Compounds	mg/m3	Every 6 months	3	12/07/2023 12:52:00 PM	0.07000

Boiler number 3 exhaust - duct A marked and shown as EPL Monitors ID No. 11 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	98.65%	178.53	464.57	765.84
SO2	mg/m3	Continuous when generating	98.65%	786.39	1,055.64	1,325.44



Start Of Month	EndDate ▼
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	3	13/07/2023 8:00:00 AM	0.00015
Chlorine	mg/m3	Every 6 months	3	13/07/2023 12:05:00 PM	0.04400
CO2	%	Every 6 months	14	11/10/2023 11:50:00 AM	8.80000
Fluorine	mg/m3	Every 6 months	3	13/07/2023 12:05:00 PM	15.00000
Hydrogen Chloride	mg/m3	Every 6 months	3	13/07/2023 12:05:00 PM	11.00000
Mercury	mg/m3	Every 6 months	3	13/07/2023 8:00:00 AM	0.00410
Solid Particles	mg/m3	Quarterly	6	11/10/2023 7:45:00 AM	12.00000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	3	19/07/2023 12:33:00 PM	8.10000
Type 1&2 Substances	mg/m3	Every 6 months	3	13/07/2023 8:00:00 AM	0.01000
Volatile Organic Compounds	mg/m3	Every 6 months	3	13/07/2023 1:03:00 PM	0.06700

#### Boiler number 3 exhaust - duct B marked and shown as EPL Monitors ID No. 12 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	99.87%	158.82	514.02	781.24
SO2	mg/m3	Continuous when generating	99.87%	814.27	1,084.34	1,338.57



Start Of Month	EndDate ▼
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	3	13/07/2023 8:10:00 AM	0.00041
CO2	%	Every 6 months	8	11/10/2023 11:48:00 AM	8.30000
Mercury	mg/m3	Every 6 months	3	13/07/2023 8:10:00 AM	0.00450
Solid Particles	mg/m3	Quarterly	6	11/10/2023 7:42:00 AM	6.90000
Type 1&2 Substances	mg/m3	Every 6 months	3	13/07/2023 8:10:00 AM	0.04250

Boiler number 4 exhaust - duct A marked and shown as EPL Monitors ID No. 13 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	99.81%	182.73	520.42	788.47
SO2	mg/m3	Continuous when generating	99.81%	816.27	1,052.51	1,307.79



Start Of Month	EndDate ▼
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	3	14/07/2023 8:10:00 AM	0.00020
CO2	%	Every 6 months	8	12/10/2023 11:36:00 AM	8.40000
Mercury	mg/m3	Every 6 months	3	14/07/2023 8:10:00 AM	0.00410
Solid Particles	mg/m3	Quarterly	6	12/10/2023 7:30:00 AM	5.10000
Type 1&2 Substances	mg/m3	Every 6 months	3	14/07/2023 8:10:00 AM	0.01550

#### Boiler number 4 exhaust - duct B marked and shown as EPL Monitors ID No. 14 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	99.81%	195.51	510.72	831.28
SO2	mg/m3	Continuous when generating	99.81%	901.18	1,183.25	1,430.95



Start Of Month	EndDate •
01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest measurement
Cadmium	mg/m3	Every 6 months	3	14/07/2023 7:30:00 AM	0.00020
Chlorine	mg/m3	Every 6 months	3	14/07/2023 11:38:00 AM	0.03800
CO2	%	Every 6 months	14	12/10/2023 11:36:00 AM	9.20000
Fine Particulates PM10	mg/m3	Every 6 months	2	12/10/2023 11:36:00 AM	1.30000
Fluorine	mg/m3	Every 6 months	3	14/07/2023 11:38:00 AM	22.00000
Hydrogen Chloride	mg/m3	Every 6 months	3	14/07/2023 11:38:00 AM	19.00000
Mercury	mg/m3	Every 6 months	3	14/07/2023 7:30:00 AM	0.00250
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	3	19/07/2023 7:35:00 AM	3.20000
Type 1&2 Substances	mg/m3	Every 6 months	3	14/07/2023 7:30:00 AM	0.04000
Volatile Organic Compounds	mg/m3	Every 6 months	3	14/07/2023 12:34:00 PM	0.10000



Start Of Month EndDate 01-Jan-24 12:00:00 AM 01-Feb-24 12:00:00 AM

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

**EPA Monitoring Point 19** 

Pollutant ▲	Unit of measure	Sampling Frequency	Sampling Performance	Month Count Measure	Lowest Value	Mean Value	Highest Value	100th percentile concentration limits
Conductivity	uS/cm	Continuous during discharge	0.00%	8903	717.00000	3479.68831	4014.00000	4500 uS/cm
Oil and Grease	mg/L	Fortnightly	0.00%	2	1.00000	1.50000	2.00000	10 mg/L
рН	pH units	Continuous during discharge	0.00%	8902	7.29882	8.16564	8.35000	9 pH units
Pollutant	Unit of measure	Sampling Frequency	Month Count Measure	Month Sum Measure			100th percentile concentration limits	
Volume	ML/d	Daily	31	382.00 840 MI			840 ML/d	

### **EPA Monitoring Point 20**

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 Frequency	Samples collected	Lowest Value	Mean Value	Highest Value	100th percentile concentration limits
Oil and Grease	mg/L	Fortnightly	4	1.00000	1.00000	1.00000	10 mg/L
Suspended Solids	mg/L	Fortnightly	4	2.50000	3.12500	5.00000	30 mg/L
Volume	kL/d	Daily	5	0.00000	3997.00000	28447.00000	36400 kL/d

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 Frequency	Samples collected	Lowest Value	Mean Value	Highest Value
Boron	mg/L	Weekly during discharge				
Cadmium	mg/L	Weekly during discharge				
Conductivity	uS/cm	Continuous during discharge				
Copper	mg/L	Weekly during discharge				
Iron	mg/L	Weekly during discharge				
Molybdenum	mg/L	Weekly during discharge				
Nickel	mg/L	Weekly during discharge				
рН	pH units	Weekly during discharge				
Silver	mg/L	Weekly during discharge				
Volume	kL/d	Daily		0.00000	0.00000	0.00000



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01-Jan-24 12:00:00 AM	01-Feb-24 12:00:00 AM



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 Frequency	Samples collected	Lowest Value	Mean Value	Highest Value	100th percentile concentration limits
Volume	ML/d	Daily	29	23.23541	47.68910	55.71085	0 ML/d



### **EPA 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 Frequency	Samples Performance	Lowest Value	Mean Value	Highest Value	100th percentile concentration limits
Conductivity	uS/cm	Continuous during discharge					0 uS/cm
рН	pH units	Daily during discharge					8.5 pH units
Suspended Solids	mg/L	Daily during discharge					30 mg/L

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Value	Highest Value	100th percentile concentration limits
Volume	ML/d	Daily					700 ML/d

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



Pollutant	Unit of measure	Sampling Frequency	Samples collected	lowest value	Mean Value	Highest Value	100th percentile concentration limits	<u> </u>
Boron	mg/L	Weekly during discharge					0.81 mg/L	Star
Cadmium	mg/L	Weekly during discharge					0.2 mg/L	0.5
Conductivity	uS/cm	Continuous during discharge					0 uS/cm	
Copper	mg/L	Weekly during discharge					0.001 mg/L	
Iron	mg/L	Weekly during discharge					0.27 mg/L	
Molybdenum	mg/L	Weekly during discharge					0.29 mg/L	
Nickel	mg/L	Weekly during discharge					0.019 mg/L	
рН	pH units	Weekly during discharge					9.5 pH units	
Silver	mg/L	Weekly during discharge					0.0005 mg/L	
Suspended Solids	mg/L	Monthly during discharge					30 mg/L	
Volume	ML/d	Daily		0.00000	0.00000	0.00000	20 ML/d	

Details of Non-Compliance with Licence Conditions

WORDS)

Start Time Summary of particulars of the non- If required, further details on compliance (NO MORE THAN 50 particulars of non-compliance Date(s) when the non-compliance Cause of non-compliance occurred, if applicable

# No incidents for the last month

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