



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

Monthly Data Summary

AGL Macquarie - Bayswater Power Station

Environmental Protection License: EPL779

EPA Monitoring Point 3



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	99.86%	280.95	485.04	773.95	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.86%	761.91	1,068.87	1,279.03	1700 mg/m3

Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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 09:10:00	0.00250	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	11/07/2023 13:20:00	0.01000	20 mg/m3
Fluorine	mg/m3	Every 6 months	11/07/2023 13:20:00	11.00000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	11/07/2023 13:20:00	10.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	11/07/2023 09:10:00	0.00140	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	11/07/2023 09:10:00	6.80000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	18/07/2023 07:45:00	7.80000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	11/07/2023 09:10:00	0.01500	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	11/07/2023 14:20:00	0.26000	10 mg/m3

EPA Monitoring Point 4



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%	300.94	495.48	944.02	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.86%	762.39	1,139.31	1,431.01	1700 mg/m3

Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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 08:13:00	0.00035	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	12/07/2023 12:00:00	0.03700	20 mg/m3
Fluorine	mg/m3	Every 6 months	12/07/2023 12:00:00	17.00000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	12/07/2023 12:00:00	18.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	12/07/2023 08:13:00	0.00280	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	10/10/2023 08:20:00	4.30000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	18/07/2023 12:10:00	5.50000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	12/07/2023 08:13:00	0.01000	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	12/07/2023 12:52:00	0.07000	10 mg/m3

EPA Monitoring Point 5



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	99.71%	258.29	639.99	941.93	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.71%	713.50	1,055.95	1,278.42	1700 mg/m3

Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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 08:00:00	0.00020	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	13/07/2023 12:05:00	0.04400	20 mg/m3
Fluorine	mg/m3	Every 6 months	13/07/2023 12:05:00	15.00000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	13/07/2023 12:05:00	11.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	13/07/2023 08:00:00	0.00430	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	11/10/2023 07:45:00	9.30000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	19/07/2023 12:33:00	8.10000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	13/07/2023 08:00:00	0.03000	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	13/07/2023 13:03:00	0.06700	10 mg/m3

EPA Monitoring Point 6



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%	324.06	563.33	928.38	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.81%	948.50	1,139.09	1,359.02	1700 mg/m3

Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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 08:10:00	0.00020	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	14/07/2023 11:38:00	0.03800	20 mg/m3
Fluorine	mg/m3	Every 6 months	14/07/2023 11:38:00	22.00000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	14/07/2023 11:38:00	19.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	14/07/2023 08:10:00	0.00320	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	12/10/2023 07:30:00	3.90000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	19/07/2023 07:35:00	3.20000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	14/07/2023 08:10:00	0.03000	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	14/07/2023 12:34:00	0.10000	10 mg/m3

EPA Monitoring Point 7



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	99.86%	262.62	458.73	715.00
SO2	mg/m3	Continuous when generating	99.86%	716.14	1,015.30	1,212.77

Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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	2	11/07/2023 09:10:00	0.00015
Chlorine	mg/m3	Every 6 months	2	11/07/2023 13:20:00	0.01000
CO2	%	Every 6 months	9	18/07/2023 07:54:00	8.70000
Fluorine	mg/m3	Every 6 months	2	11/07/2023 13:20:00	11.00000
Hydrogen Chloride	mg/m3	Every 6 months	2	11/07/2023 13:20:00	10.00000
Mercury	mg/m3	Every 6 months	2	11/07/2023 09:10:00	0.00063
Solid Particles	mg/m3	Quarterly	4	11/07/2023 09:10:00	6.70000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	2	18/07/2023 07:45:00	7.80000
Type 1&2 Substances	mg/m3	Every 6 months	2	11/07/2023 09:10:00	0.00750
Volatile Organic Compounds	mg/m3	Every 6 months	2	11/07/2023 14:20:00	0.26000

EPA Monitoring Point 8

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%	291.25	511.06	828.78
SO2	mg/m3	Continuous when generating	99.86%	790.88	1,123.75	1,354.32



Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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	2	11/07/2023 09:35:00	0.00910
CO2	%	Every 6 months	5	11/07/2023 09:35:00	10.00000
Mercury	mg/m3	Every 6 months	2	11/07/2023 09:35:00	0.00210
Solid Particles	mg/m3	Quarterly	4	11/07/2023 09:35:00	6.90000
Type 1&2 Substances	mg/m3	Every 6 months	2	11/07/2023 09:35:00	0.02000

EPA Monitoring Point 9

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	99.86%	273.48	500.42	940.97
SO2	mg/m3	Continuous when generating	99.86%	756.01	1,187.80	1,513.77



Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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	2	12/07/2023 08:13:00	0.00120
CO2	%	Every 6 months	7	10/10/2023 12:25:00	10.60000
Mercury	mg/m3	Every 6 months	2	12/07/2023 08:13:00	0.00260
Solid Particles	mg/m3	Quarterly	5	10/10/2023 08:20:00	7.00000
Type 1&2 Substances	mg/m3	Every 6 months	1	16/02/2023 08:12:00	0.01050

EPA Monitoring Point 10



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	98.42%	129.34	490.30	937.04
SO2	mg/m3	Continuous when generating	98.42%	323.95	1,088.18	1,415.15

Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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	2	12/07/2023 07:50:00	0.00100
Cadmium	mg/m3	Every 6 months	2	12/07/2023 07:50:00	0.00015
Chlorine	mg/m3	Every 6 months	2	12/07/2023 12:00:00	0.03700
CO2	%	Every 6 months	11	10/10/2023 12:28:00	9.90000
Fluorine	mg/m3	Every 6 months	2	12/07/2023 12:00:00	17.00000
Hydrogen Chloride	mg/m3	Every 6 months	2	12/07/2023 12:00:00	18.00000
Mercury	mg/m3	Every 6 months	2	12/07/2023 07:50:00	0.00290
Solid Particles	mg/m3	Quarterly	5	10/10/2023 08:20:00	2.00000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	2	18/07/2023 12:10:00	5.50000
Type 1&2 Substances	mg/m3	Every 6 months	2	12/07/2023 07:50:00	0.01100
Volatile Organic Compounds	mg/m3	Every 6 months	2	12/07/2023 12:52:00	0.07000

EPA Monitoring Point 11



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	94.93%	47.71	584.32	838.73
SO2	mg/m3	Continuous when generating	94.93%	112.23	1,033.94	1,327.74

Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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 08:00:00	0.00015
Chlorine	mg/m3	Every 6 months	3	13/07/2023 12:05:00	0.04400
CO2	%	Every 6 months	14	11/10/2023 11:50:00	8.80000
Fluorine	mg/m3	Every 6 months	3	13/07/2023 12:05:00	15.00000
Hydrogen Chloride	mg/m3	Every 6 months	3	13/07/2023 12:05:00	11.00000
Mercury	mg/m3	Every 6 months	3	13/07/2023 08:00:00	0.00410
Solid Particles	mg/m3	Quarterly	6	11/10/2023 07:45:00	12.00000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	3	19/07/2023 12:33:00	8.10000
Type 1&2 Substances	mg/m3	Every 6 months	3	13/07/2023 08:00:00	0.01000
Volatile Organic Compounds	mg/m3	Every 6 months	3	13/07/2023 13:03:00	0.06700

EPA Monitoring Point 12

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	99.57%	254.58	704.69	1,040.65
SO2	mg/m3	Continuous when generating	99.57%	737.46	1,068.62	1,282.32



Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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 08:10:00	0.00041
CO2	%	Every 6 months	8	11/10/2023 11:48:00	8.30000
Mercury	mg/m3	Every 6 months	3	13/07/2023 08:10:00	0.00450
Solid Particles	mg/m3	Quarterly	6	11/10/2023 07:42:00	6.90000
Type 1&2 Substances	mg/m3	Every 6 months	3	13/07/2023 08:10:00	0.04250

EPA Monitoring Point 13

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%	316.81	588.87	985.87
SO2	mg/m3	Continuous when generating	99.81%	909.03	1,105.92	1,355.42



Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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	2	14/07/2023 08:10:00	0.00020
CO2	%	Every 6 months	7	12/10/2023 11:36:00	8.40000
Mercury	mg/m3	Every 6 months	2	14/07/2023 08:10:00	0.00410
Solid Particles	mg/m3	Quarterly	5	12/10/2023 07:30:00	5.10000
Type 1&2 Substances	mg/m3	Every 6 months	2	14/07/2023 08:10:00	0.01550

EPA Monitoring Point 14



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%	329.18	537.71	877.25
SO2	mg/m3	Continuous when generating	99.81%	936.35	1,171.70	1,376.93

Start Of Month	EndDate
01-Feb-24 12:00:00 AM	01-Mar-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	2	14/07/2023 07:30:00	0.00020
Chlorine	mg/m3	Every 6 months	2	14/07/2023 11:38:00	0.03800
CO2	%	Every 6 months	11	12/10/2023 11:36:00	9.20000
Fine Particulates PM10	mg/m3	Every 6 months	2	12/10/2023 11:36:00	1.30000
Fluorine	mg/m3	Every 6 months	2	14/07/2023 11:38:00	22.00000
Hydrogen Chloride	mg/m3	Every 6 months	2	14/07/2023 11:38:00	19.00000
Mercury	mg/m3	Every 6 months	2	14/07/2023 07:30:00	0.00250
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	2	19/07/2023 07:35:00	3.20000
Type 1&2 Substances	mg/m3	Every 6 months	2	14/07/2023 07:30:00	0.04000
Volatile Organic Compounds	mg/m3	Every 6 months	2	14/07/2023 12:34:00	0.10000



EPA Monitoring Point 19

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

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

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%	8349	11.00000	3407.50184	4054.00000	4500 uS/cm
Oil and Grease	mg/L	Fortnightly	0.00%	2	1.00000	1.00000	1.00000	10 mg/L
pH	pH units	Continuous during discharge	0.00%	8349	7.05000	8.13071	8.36000	9 pH units
Pollutant	Unit of measure	Sampling Frequency	Month Count Measure	Month Sum Measure			100th percentile concentration limits	
Volume	ML/d	Daily	29	318.00			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	3.37500	6.00000	30 mg/L
Volume	kL/d	Daily	4	0.00000	3584.17241	31739.00000	36400 kL/d

EPA Monitoring Point 21

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	4	2.23000	2.47250	2.57000
Cadmium	mg/L	Weekly during discharge	4	0.00005	0.00006	0.00010
Conductivity	uS/cm	Continuous during discharge	4	2520.00000	2562.50000	2630.00000
Copper	mg/L	Weekly during discharge	4	0.00050	0.00125	0.00300
Iron	mg/L	Weekly during discharge	4	0.02500	0.16375	0.31000
Molybdenum	mg/L	Weekly during discharge	4	0.17400	0.25850	0.31100
Nickel	mg/L	Weekly during discharge	4	0.00400	0.00600	0.00800
pH	pH units	Weekly during discharge	4	7.71000	8.08750	8.52000
Silver	mg/L	Weekly during discharge	4	0.00050	0.00050	0.00050
Volume	kL/d	Daily	5	0.00000	10034.31735	114609.60156



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

EPA Monitoring Point 22



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	27	18.92871	33.57262	46.18494	0 ML/d

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

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
pH	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

EPA 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

Pollutant	Unit of measure	Sampling Frequency	Samples collected	lowest value	Mean Value	Highest Value	100th percentile concentration limits
Boron	mg/L	Weekly during discharge					0.81 mg/L
Cadmium	mg/L	Weekly during discharge					0.2 mg/L
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
pH	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

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

Details of Non-Compliance with Licence Conditions	Start Time ▼	Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)	If required, further details on particulars of non-compliance	Date(s) when the non-compliance occurred, if applicable	Cause of non-compliance	Mitigation	Action taken or that will be taken to prevent a recurrence of the non-compliance
	01/02/2024 03:21:00	Ravensworth flyash plant sump pump failed resulting in a small amount of slurry escaping		1-Feb 24	flyash plant sump pump failure	Hay bales and booms deployed to contain slurry. Vaccuum trucks used to empty sump until repairs made	