BAYSWATER MONTHLY DATA SUMMARY JANUARY 2016

	LICENCE NO	779
	LICENCE HOLDER	AGL Macquarie
	REPORTING PERIOD	JANUARY 2016
A1	Licence Holder	
	Licence Number	779
	Licence Holder	AGL Macquarie
	Trading Name (if applicable)	
	ABN	18 402 904 344
A2	Premises to which Licence A	oplies (if applicable)
	Common Name (if any)	BAYSWATER POWER STATION
	Premises	NEW ENGLAND HIGHWAY MUSWELLBROOK NSW 2333
A3	Activities to which Licence Ap	pplies
	Electricity Generation	
A4	Other Activities (if applicable)	Crushing, Grinding or Separating Works Aircraft (helicopter) facilities
	Crushing, Grinding or Separatin	g Works
	Sewage Treatment Systems	
	Chemical Storage Facilities	
	Aircraft (helicopter) facilities	
A5	Fee-Based Activity Classification	tions
		star (Martha Sana) da ante da ante da Sana) e fac

Note that the fee based activity classification is used to	o calculate the administrative fee.	
Fee-based activity	Activity scale	Unit of measure
Generation of electrical power from coal	> 4,000.00	Gwh generated
Chemical Storage	> 100	Tonnes Generated or Stored
Coal Works	> 5000000	Tonnes handled

Discharge & Monitoring Point 1

Discharge to waters

Effluent quality and volume monitoring, Discharge from main station oil separator hoBWing basin and Treated Process Water Pond to Tinkers Creek, shown as "EPA ID No. 1" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2016	5/02/2016	Oil and Grease	milligrams per litre	Fortnightly	4	<5	2.5	<5	10 mg/L
JANUARY 2016	5/02/2016	Total suspended solids	milligrams per litre	Fortnightly	4	2.0	5.8	10.0	20 mg/L
JANUARY 2016	5/02/2016	Volume discharge	kilolitres per week	Weekly during discharge	4	0	9,357	11,476	36,400 kL
Comments:									

Discharge & Monitoring Point 7

Discharge to waters

Effluent quality and volume monitoring, Discharge from cooling towers to Tinkers Creek, shown as "EPA ID No. 7" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2016	5/02/2016	Conductivity	uS/cm	Weekly	4	3300	3545	3960	4500 uS/cm
JANUARY 2016	5/02/2016	pН	pH Units	Weekly	4	8.1	8.3	8.4	6.5 - 8.5
JANUARY 2016	5/02/2016	Volume discharge	Megalitres per month	Weekly during discharge	1		610.2		840 ML
Comments:									

Discharge & Monitoring Point 8

Discharge to waters

Discharge & monitoring point under the Hunter River Salinity Trading Scheme, Discharge pipe from Lake Liddel dam wall, shown as "EPA ID No. 8" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit			
JANUARY 2016	5/02/2016	Conductivity	uS/cm	Continuous during disharge	6	2130	2257	2320	-			
JANUARY 2016	5/02/2016	рН	pH Units	Daily during discharge	6	8.0	8.2	8.4	6.5 - 8.5			
JANUARY 2016	5/02/2016	Total suspended solids	milligrams per litre	Monthly	6	<5	4.9	16	30 mg/L			
JANUARY 2016	5/02/2016	Volume discharge	Megalitres per day	Daily during discharge	5	42.3	295.6	588.5	700 ML			
Comments:	These results were obtained from daily grab samples during the discharge blocks and the regular monthly sampling regime.											

Discharge & Monitoring Point 10

Discharge to air

Air emission monitoring, Boiler 1 stack emissions, shown as "EPA ID No. 10" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2016	5/02/2016		parts per million				101.5	263.8	455.0	700 ppm
JANUARY 2016	5/02/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	98.4%	208.4	541.5	933.9	1500 mg/m ³
JANUARY 2016	5/02/2016	Sulphur dioxide	parts per million	Continuous	One hour	100.0%	162.8	311.2	401.4	600 ppm
JANUARY 2016	5/02/2016		milligrams per cubic metre	Continuous	One hour		465.3	889.5	1147.2	-
JANUARY 2016	5/02/2016	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	3.1%	7.1%	12.8%	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 1 stack emissions, shown as "EPA ID No. 13" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³
JANUARY 2016	5/02/2016	Cadmium	milligrams per cubic metre	1	1	0.00003	1.0
JANUARY 2016	5/02/2016	Carbon monoxide	ppm	1	1	23	
JANUARY 2016	5/02/2016	Chlorine	milligrams per cubic metre	1	1	0.01	200
JANUARY 2016	5/02/2016	Copper	milligrams per cubic metre	1	1	0.0005	
JANUARY 2016	5/02/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.007	5
JANUARY 2016	5/02/2016	Hydrogen chloride	milligrams per cubic metre	1	1	16.0	100
JANUARY 2016	5/02/2016	Mercury	milligrams per cubic metre	1	1	0.0016	1.0
JANUARY 2016	5/02/2016	Nitrogen oxides	milligrams per cubic metre	1	1	830	1500
JANUARY 2016	5/02/2016	Solid particles	milligrams per cubic metre	1	1	9.5	100
JANUARY 2016	5/02/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	8.90	100
JANUARY 2016	5/02/2016	Sulphur dioxide	milligrams per cubic metre	1	1	1100	
JANUARY 2016	5/02/2016	Total fluoride	milligrams per cubic metre	1	1	9.3	50
Comments:		on from each of the 4 boilers biler 1 tested 27 October 20		table is required annually. In	most years one boiler is	tested each quarter. Th	nis table contains the

Discharge & Monitoring Point 11

Discharge to air

Air emission monitoring, Boiler 2 stack emissions, shown as "EPA ID No. 11" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2016	5/02/2016	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	0.7%	5.4%	12.0%	20%
Comments:										

Annual monitoring of discharges to air Air emission monitoring, Boiler 2 stack emissions, shown as "EPA ID No. 13" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³
JANUARY 2016	5/02/2016	Cadmium	milligrams per cubic metre	1	1	0.00005	1.0
JANUARY 2016	5/02/2016	Carbon monoxide	ppm	1	1	27	
JANUARY 2016	5/02/2016	Chlorine	milligrams per cubic metre	1	1	0.0	200
JANUARY 2016	5/02/2016	Copper	milligrams per cubic metre	1	1	0.0011	
JANUARY 2016	5/02/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.037	5
JANUARY 2016	5/02/2016	Hydrogen chloride	milligrams per cubic metre	1	1	16.0	100
JANUARY 2016	5/02/2016	Mercury	milligrams per cubic metre	1	1	0.00140	1.0
JANUARY 2016	5/02/2016	Nitrogen oxides	milligrams per cubic metre	1	1	670	1500
JANUARY 2016	5/02/2016	Solid particles	milligrams per cubic metre	1	1	8.2	100
JANUARY 2016	5/02/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	55	100
JANUARY 2016	5/02/2016	Sulphur dioxide	milligrams per cubic metre	1	1	810	
JANUARY 2016	5/02/2016	Total fluoride	milligrams per cubic metre	1	1	6.7	50
Comments:	Monitoring of emission latest results from Be	on from each of the 4 boilers oiler 2 tested on 16 and 17 J	for the substances in this uly 2015.	table is required annually. In	most years one boiler is	tested each quarter. Th	his table contains the

Discharge & Monitoring Point 12

Discharge to air

Air emission monitoring, Boiler 3 stack emissions, shown as "EPA ID No. 12" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2016	5/02/2016	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	3.5%	7.7%	14.2%	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 3 stack emissions, shown as "EPA ID No. 13" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³
JANUARY 2016	5/02/2016	Cadmium	milligrams per cubic metre	1	1	0.00002	1.0
JANUARY 2016	5/02/2016	Carbon monoxide	ppm	1	1	5	
JANUARY 2016	5/02/2016	Chlorine	milligrams per cubic metre	1	1	0.005	200
JANUARY 2016	5/02/2016	Copper	milligrams per cubic metre	1	1	0.0011	
JANUARY 2016	5/02/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.01	5
JANUARY 2016	5/02/2016	Hydrogen chloride	milligrams per cubic metre	1	1	12.0	100
JANUARY 2016	5/02/2016	Mercury	milligrams per cubic metre	1	1	0.0017	1.0
JANUARY 2016	5/02/2016	Nitrogen oxides	milligrams per cubic metre	1	1	780	1500
JANUARY 2016	5/02/2016	Solid particles	milligrams per cubic metre	1	1	20.0	100
JANUARY 2016	5/02/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	37.00	100
JANUARY 2016	5/02/2016	Sulphur dioxide	milligrams per cubic metre	1	1	960	
JANUARY 2016	5/02/2016	Total fluoride	milligrams per cubic metre	1	1	13.0	50
Comments:		on from each of the 4 boilers piler 3 sampled on 14 and 15		table is required annually. In	most years one boiler is	tested each quarter. Th	his table contains the

Discharge & Monitoring Point 13

Discharge to air Air emission monitoring, Boiler 4 stack emissions, shown as "EPA ID No. 12" on plar

Air emission monitoring, Boiler 4 stack emissions, shown as "EPA ID No. 12" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2016	5/02/2016	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	0.6%	3.3%	18.6%	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 4 stack emissions, shown as "EPA ID No. 13" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³	
JANUARY 2016	5/02/2016	Cadmium	milligrams per cubic metre	1	1	0.00002	1.0	
JANUARY 2016	5/02/2016	Carbon monoxide	ppm	1	1	<0.0029		
JANUARY 2016	5/02/2016	Chlorine	milligrams per cubic metre	1	1	0.02	200	
JANUARY 2016	5/02/2016	Copper	milligrams per cubic metre	1	1	0.0018		
JANUARY 2016	5/02/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.012	5	
JANUARY 2016	5/02/2016	Hydrogen chloride	milligrams per cubic metre	1	1	22.0	100	
JANUARY 2016	5/02/2016	Mercury	milligrams per cubic metre	1	1	0.0011	1.0	
JANUARY 2016	5/02/2016	Nitrogen oxides	milligrams per cubic metre	1	1	940	1500	
JANUARY 2016	5/02/2016	Solid particles	milligrams per cubic metre	1	1	17.0	100	
JANUARY 2016	5/02/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	9.30	100	
JANUARY 2016	5/02/2016	Sulphur dioxide	milligrams per cubic metre	1	1	930		
JANUARY 2016	5/02/2016	Total fluoride	milligrams per cubic metre	1	1	11.0	50	
Comments:	Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. In most years one boiler is tested each quarter. This table contains the latest results from Boiler 4 sampled on 21 and 22 May 2015.							

Details of Non-Compliance with Licence Conditions					
Licence condition number not complied with					
NA					
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					
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					
Cause of non-compliance					
Action taken or that will be taken to mitigate any adverse effects of the non-compliance					
Action taken or that will be taken to prevent a recurrence of the non-compliance					
	I				