

Monthly Data Summary

LIDDELL MONTHLY DATA SUMMARY SEPTEMBER 2016

LICENCE NO	2122
LICENCE HOLDER	AGL MACQUARIE
REPORTING PERIOD	SEPTEMBER 2016

A1 Licence Holder

Licence Number 2122
Licence Holder AGL MACQUARIE
Trading Name (if applicable)
ABN 18 167 859 494

A2 Premises to which Licence Applies (if applicable)

Common Name (if any) LIDDELL POWER STATION
Premises NEW ENGLAND HIGHWAY MUSWELLBROOK NSW 2333

A3 Activities to which Licence Applies

Electricity Generating Works
Coal Works

A4 Other Activities (if applicable)

Helicopter-related facilities
Chemical storage
Operation of Emergency 1.5 MW diesel generator
Operation of Gas turbine
Sewage treatment
Waste storage

A5 Fee-Based Activity Classifications

Note that the fee based activity classification is used to calculate the administrative fee.

Fee-based activity	Activity scale	Unit of measure
Coal works	> 5,000,000.00	T handled
Generation of electrical power from coal	> 4,000.00	Gwh generated

Monthly Data Summary

Discharge & Monitoring Point 7

301204 East 6416350 North

Discharge to Air

In the flue gases of unit 1boiler labelled as "Unit 1 Boiler 1-2 Chimney Stack" on plan no. LD 800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
SEPTEMBER 2016	14/10/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	414.9	558.7	744.3	1500 mg/m ³
SEPTEMBER 2016	14/10/2016		parts per million				202.1	272.2	362.6	700 ppm
SEPTEMBER 2016	14/10/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	790.3	948.1	1148.7	
SEPTEMBER 2016	14/10/2016		parts per million				276.5	331.7	401.9	600 ppm
SEPTEMBER 2016	14/10/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	1.7	6.4	13.9	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 1 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

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
Sep-15	14/10/2015	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0
Sep-15	14/10/2015	Chlorine	milligrams per cubic metre	1	1	0.0	200
Sep-15	14/10/2015	Copper	milligrams per cubic metre	1	1	0.0007	
Sep-15	14/10/2015	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.015	5
Sep-15	14/10/2015	Hydrogen chloride	milligrams per cubic metre	1	1	10.0	100
Sep-15	14/10/2015	Mercury	milligrams per cubic metre	1	1	0.00049	1.0
Sep-15	14/10/2015	Nitrogen oxides	milligrams per cubic metre	1	1	840	1500
Sep-15	14/10/2015	Solid particles	milligrams per cubic metre	1	1	24.0	100
Sep-15	14/10/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	12.000	100
Sep-15	14/10/2015	Sulphur dioxide	milligrams per cubic metre	1	1	1000	
Sep-15	14/10/2015	Total fluoride	milligrams per cubic metre	1	1	11.0	50
Sep-15	14/10/2015	Volatile organic compounds	milligrams per cubic metre	1	1	<0.018	
Comments:							
Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 1 tested 8 Sep 15. This Boiler is scheduled for testing in October 16.							

Monthly Data Summary

Discharge & Monitoring Point 8

301204 East 6416350 North

In the flue gases of unit 2 boiler labelled as "Unit 2 Boiler 1-2 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
SEPTEMBER 2016	14/10/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	453	597	780	1500 mg/m ³
SEPTEMBER 2016	14/10/2016		parts per million				221	291	380	700 ppm
SEPTEMBER 2016	14/10/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	804	949	1168	
SEPTEMBER 2016	14/10/2016		parts per million				281	332	409	600 ppm
SEPTEMBER 2016	14/10/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.2	5.5	8.4	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 2 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

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
Sep-15	14/10/2015	Cadmium	milligrams per cubic metre	1	1	0.0000	1.0
Sep-15	14/10/2015	Chlorine	milligrams per cubic metre	1	1	<0.0042	200
Sep-15	14/10/2015	Copper	milligrams per cubic metre	1	1	0.0013	
Sep-15	14/10/2015	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.014	5
Sep-15	14/10/2015	Hydrogen chloride	milligrams per cubic metre	1	1	16.0	100
Sep-15	14/10/2015	Mercury	milligrams per cubic metre	1	1	0.00033	1.0
Sep-15	14/10/2015	Nitrogen oxides	milligrams per cubic metre	1	1	530	1500
Sep-15	14/10/2015	Solid particles	milligrams per cubic metre	1	1	21.0	100
Sep-15	14/10/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	7.200	100
Sep-15	14/10/2015	Sulphur dioxide	milligrams per cubic metre	1	1	1100	
Sep-15	14/10/2015	Total fluoride	milligrams per cubic metre	1	1	9.6	50
Sep-15	14/10/2015	Volatile organic compounds	milligrams per cubic metre	1	1	<0.026	
Comments:	Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 2 tested 9 Sep 15. This boiler is scheduled for tested in October 16.						

Monthly Data Summary

Discharge & Monitoring Point 9

301204 East 6416350 North

In the flue gases of unit 3 boiler labelled as "Unit 3 Boiler 3-4 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
SEPTEMBER 2016	14/10/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	469.5	608.0	1145.6	1500 mg/m ³
SEPTEMBER 2016	14/10/2016		parts per million				228.7	296.2	558.2	700 ppm
SEPTEMBER 2016	14/10/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	691.1	847.9	1586.0	
SEPTEMBER 2016	14/10/2016		parts per million				241.8	296.7	554.9	600 ppm
SEPTEMBER 2016	14/10/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.4	5.0	7.3	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 3 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

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
Jun-16	30/06/2016	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0
Jun-16	30/06/2016	Chlorine	milligrams per cubic metre	1	1	0.0	200
Jun-16	30/06/2016	Copper	milligrams per cubic metre	1	1	0.0007	
Jun-16	30/06/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	<0.019	5
Jun-16	30/06/2016	Hydrogen chloride	milligrams per cubic metre	1	1	3.3	100
Jun-16	30/06/2016	Mercury	milligrams per cubic metre	1	1	0.00063	1.0
Jun-16	30/06/2016	Nitrogen oxides	milligrams per cubic metre	1	1	780	1500
Jun-16	30/06/2016	Solid particles	milligrams per cubic metre	1	1	35.0	100
Jun-16	30/06/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	58.000	100
Jun-16	30/06/2016	Sulphur dioxide	milligrams per cubic metre	1	1	970	
Jun-16	30/06/2016	Total fluoride	milligrams per cubic metre	1	1	3.6	50
Jun-16	30/06/2016	Volatile organic compounds	milligrams per cubic metre	1	1	<0.03	
Comments:	Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. Boiler 3 was tested 7 June 2016.						

Monthly Data Summary

Discharge & Monitoring Point 10

301204 East 6416350 North

In the flue gases of unit 4 boiler labelled as "Unit 4 Boiler 3-4 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
SEPTEMBER 2016	14/10/2016	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	258.5	525.7	672.4	1500 mg/m ³
SEPTEMBER 2016	14/10/2016		parts per million				126.0	256.1	327.6	700 ppm
SEPTEMBER 2016	14/10/2016	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	724.8	857.4	1065.9	
SEPTEMBER 2016	14/10/2016		parts per million				253.6	300.0	372.9	600 ppm
SEPTEMBER 2016	14/10/2016	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	6.1	8.8	12.8	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 4 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

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
Jan-16	23/02/2016	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0
Jan-16	23/02/2016	Chlorine	milligrams per cubic metre	1	1	<0.02	200
Jan-16	23/02/2016	Copper	milligrams per cubic metre	1	1	0.0011	
Jan-16	23/02/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	<0.041	5
Jan-16	23/02/2016	Hydrogen chloride	milligrams per cubic metre	1	1	11.0	100
Jan-16	23/02/2016	Mercury	milligrams per cubic metre	1	1	0.00022	1.0
Jan-16	23/02/2016	Nitrogen oxides	milligrams per cubic metre	1	1	850	1500
Jan-16	23/02/2016	Solid particles	milligrams per cubic metre	1	1	58.0	100
Jan-16	23/02/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.100	100
Jan-16	23/02/2016	Sulphur dioxide	milligrams per cubic metre	1	1	660	
Jan-16	23/02/2016	Total fluoride	milligrams per cubic metre	1	1	8.6	50
Jan-16	23/02/2016	Volatile organic compounds	milligrams per cubic metre	1	1	0.088	
Comments:	Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 4 tested 19 Jan 16.						

Monthly Data Summary

Details of Non-Compliance with Licence	
Nil	
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)	
NA	
If required, further details on particulars of non-compliance	
NA	
Date(s) when the non-compliance occurred, if applicable	
NA	
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance	
NA	
Cause of non-compliance	
NA	
Action taken or that will be taken to mitigate any adverse effects of the non-compliance	
NA	
Action taken or that will be taken to prevent a recurrence of the non-compliance	
NA	

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