

# Monthly Data Summary

## LIDDELL MONTHLY DATA SUMMARY AUGUST 2016

LICENCE NO	2122
LICENCE HOLDER	AGL MACQUARIE
REPORTING PERIOD	AUGUST 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 1 boiler 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
AUGUST 2016	11/09/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	469.7	598.5	725.8	1500 mg/m <sup>3</sup>
AUGUST 2016	11/09/2015		parts per million				228.8	291.6	353.6	700 ppm
AUGUST 2016	11/09/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	834.4	1009.8	1449.6	
AUGUST 2016	11/09/2015		parts per million				291.9	353.3	507.2	600 ppm
AUGUST 2016	11/09/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	4.6	7.7	13.2	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 <sup>3</sup>			
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	1	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.								

# 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
AUGUST 2016	11/09/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	392	599	873	1500 mg/m <sup>3</sup>
AUGUST 2016	11/09/2015		parts per million				191	292	425	700 ppm
AUGUST 2016	11/09/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	720	976	1099	
AUGUST 2016	11/09/2015		parts per million				252	342	385	600 ppm
AUGUST 2016	11/09/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.8	4.3	6.4	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 <sup>3</sup>
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	1	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.							

# 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
AUGUST 2016	11/09/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	98.9%	421.6	623.8	869.4	1500 mg/m <sup>3</sup>
AUGUST 2016	11/09/2015		parts per million				205.4	303.9	423.6	700 ppm
AUGUST 2016	11/09/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	98.9%	838.7	1011.6	1184.3	
AUGUST 2016	11/09/2015		parts per million				293.4	353.9	414.4	600 ppm
AUGUST 2016	11/09/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.4	4.2	13.4	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 <sup>3</sup>
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	1	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
AUGUST 2016	11/09/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	349.0	538.9	694.2	1500 mg/m <sup>3</sup>
AUGUST 2016	11/09/2015		parts per million				170.0	262.6	338.2	700 ppm
AUGUST 2016	11/09/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	727.0	881.8	1361.5	
AUGUST 2016	11/09/2015		parts per million				254.4	308.5	476.4	600 ppm
AUGUST 2016	11/09/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	5.7	9.2	19.0	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 <sup>3</sup>			
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	1	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 <b>(NO MORE THAN 50 WORDS)</b>
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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