# **Monthly Data Summary**

**Environmental Protection Licence 2122** 

AGL Macquarie - Liddell Power Station

**Monitoring Period** 

## EPA Indentifcation Number 3

Air emission monitoring - Combined air emissions from boiler 1 via Points 7 and 8 to Point 1

Pollutant	Unit of measure	No. of samples required by licence	Dat a capture %	Lowest sample value	Mean of sample values	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m3	Continuous	98.43%	218.1	508.2	713.3	1500 mg/m <sup>3</sup>
Suflur Dioxide	mg/m3	Continuous	99.74%	360.4	688.5	899.6	1700 mg/m <sup>3</sup>
In addtion to the 100th percent Sulfur dioxide, respectively .	ile concentration	limits, 99th percentile co	oncentration limits	of 1100 mg/m3	and 1400 mg/m3	apply to Nitrogen	oxides and

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m3	Six monthly	31/08/2020	0.00008	0.2 mg/m <sup>3</sup>
Chlorine	mg/m3	Six monthly	31/08/2020	0.13000	20 mg/m <sup>3</sup>
Fluorine	mg/m3	Six monthly	31/08/2020	12.00000	20 mg/m <sup>3</sup>
Hydrogen chloride	mg/m3	Six monthly	31/08/2020	19.00000	50 mg/m <sup>3</sup>
Mercury	mg/m3	Six monthly	31/08/2020	0.00081	0.05 mg/m <sup>3</sup>
Solid Particles	mg/m3	Quarterly	17/11/2020	45.29825	50 mg/m <sup>3</sup>
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	31/08/2020	1.20000	100 mg/m <sup>3</sup>
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	31/08/2020	0.03925	0.75 mg/m <sup>3</sup>
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	31/08/2020	0.16000	10 mg/m <sup>3</sup>

OCTOBER 2020

Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrations for some substances are reported as less than the relevant Limit of Detection, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.

The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in ech quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.



Air emission monitoring - Combined air emissions from boiler 2 via Points 9 and 10 to Point 1

Pollutant	Unit of measure	No. of samples required by licence	Dat a capture %	Lowest sample value	Mean of sample	Highest sample value	100th percentile concentration limits	
Nitrogen Oxides	mg/m3	Continouus	100.00%	212.1	375.3	455.3	1500 mg/m <sup>3</sup>	
Suflur Dioxide	mg/m3	Continuous	100.00%	484.0	648.0	717.0	1700 mg/m <sup>3</sup>	
In addtion to the 100th percent	addtion to the 100th percentile concentration limits, 99th percentile concentration limits of 1100 mg/m3 and 1400 mg/m3 apply to Nitrogen oxides and							

Sulfur dioxide, respectively .

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m3	Six monthly	10/03/2020	0.00010	0.2 mg/m <sup>3</sup>
Chlorine	mg/m3	Six monthly	10/03/2020	0.03900	20 mg/m <sup>3</sup>
Fluorine	mg/m3	Six monthly	10/03/2020	7.50000	20 mg/m <sup>3</sup>
Hydrogen chloride	mg/m3	Six monthly	10/03/2020	5.80000	50 mg/m <sup>3</sup>
Mercury	mg/m3	Six monthly	15/09/2020	0.00014	0.05 mg/m <sup>3</sup>
Solid Particles	mg/m3	Quarterly	15/09/2020	57.44444	50 mg/m <sup>3</sup>
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	10/03/2020	1.40000	100 mg/m <sup>3</sup>
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	15/09/2020	0.02733	0.75 mg/m <sup>3</sup>
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	10/03/2020	0.02000	10 mg/m <sup>3</sup>

Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrationsfor some substances are reported as less than the relevant Limit of Detetction, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.

The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in ech quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

#### EPA Indentifcation Number 5

Air emission monitoring - Combined air emissions from boiler 3 via Points 11 and 12 to Point 2

Pollutant	Unit of measure	No. of samples required by licence	Dat a capture %	Lowest sample value	Mean of sample	Highest sample value	100th percentile concentration limits	
Nitrogen Oxides	mg/m3	Continouus	99.8%	273.3	404.9	528.3	1500 mg/m <sup>3</sup>	
Suflur Dioxide	mg/m3	Continuous	99.8%	663.3	854.3	986.7	1700 mg/m <sup>3</sup>	
In addtion to the 100th percent	addtion to the 100th percentile concentration limits, 99th percentile concentration limits of 1100 mg/m3 and 1400 mg/m3 apply to Nitrogen oxides and							

Sulfur dioxide, respectively

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m3	Six monthly	15/09/2020	0.00012	0.2 mg/m <sup>3</sup>
Chlorine	mg/m3	Six monthly	28/05/2020	0.00770	20 mg/m <sup>3</sup>
Fluorine	mg/m3	Six monthly	28/05/2020	9.00000	20 mg/m <sup>3</sup>
Hydrogen chloride	mg/m3	Six monthly	28/05/2020	13.00000	50 mg/m <sup>3</sup>
Mercury	mg/m3	Six monthly	15/09/2020	0.00015	0.05 mg/m <sup>3</sup>
Solid Particles	mg/m3	Quarterly	15/09/2020	44.17949	50 mg/m <sup>3</sup>
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	28/05/2020	3.40000	100 mg/m <sup>3</sup>
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	15/09/2020	0.00846	0.75 mg/m <sup>3</sup>
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	28/05/2020	0.02000	10 mg/m <sup>3</sup>

Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrationsfor some substances are reported as less than the relevant Limit of Detetction, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.

The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in ech quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Air emission monitoring - Combined air emissions from boiler 4 via Points 13 and 14 to Point 2

Pollutant	Unit of measure	No. of samples required by licence	Dat a capture %	Lowest sample value	Mean of sample	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m3	Continouus	100.0%	226.2	514.0	661.9	1500 mg/m <sup>3</sup>
Suflur Dioxide	mg/m3	Continuous	100.0%	513.9	813.3	977.1	1700 mg/m <sup>3</sup>
In addtion to the 100th percent	ile concentration I	imits, 99th percentile co	oncentration limits	s of 1100 mg/m3 a	and 1400 mg/m3	apply to Nitrogen	oxides and

Sulfur dioxide, respectively .

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m3	Six monthly	16/09/2020	0.00010	0.2 mg/m <sup>3</sup>
Chlorine	mg/m3	Six monthly	16/09/2020	0.06900	20 mg/m <sup>3</sup>
Fluorine	mg/m3	Six monthly	16/09/2020	11.00000	20 mg/m <sup>3</sup>
Hydrogen chloride	mg/m3	Six monthly	16/09/2020	17.00000	50 mg/m <sup>3</sup>
Mercury	mg/m3	Six monthly	16/09/2020	0.00113	0.05 mg/m <sup>3</sup>
Solid Particles	mg/m3	Quarterly	18/11/2020	10.46383	50 mg/m <sup>3</sup>
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	16/09/2020	47.00000	100 mg/m <sup>3</sup>
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	16/09/2020	0.01135	0.75 mg/m <sup>3</sup>
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	16/09/2020	0.16000	10 mg/m <sup>3</sup>

Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrationsfor some substances are reported as less than the relevant Limit of Detetction, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.

The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in ech quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

## EPA Indentifcation Number 7

Air emission monitoring - Boiler number 1 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continouus	98.4%	218.1	508.2	713.3
Suflur Dioxide	mg/m3	Continuous	99.7%	360.4	688.5	899.6
Flow						
Moisture						
Oxygen						
Temperature						

Pollutant	Unit of measure	No. of samples required by licence	# No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	11/03/2021	<0.0003
Chlorine	mg/m3	Six monthly			
Fluorine	mg/m3	Six monthly			
Hydrogen chloride	mg/m3	Six monthly			
Mercury	mg/m3	Six monthly	2	11/03/2021	<0.0004
Solid Particles	mg/m3	Quarterly	3	11/03/2021	120
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly			
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	11/03/2021	<0.021
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly			
Carbon dioxide	percent	Six monthly	2	31/08/2020	0.00000

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in ech quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Air emission monitoring - Boiler number 1 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres					
FIOW	per second					
Moisture	percent					
Oxygen	percent					
Temperature	degrees Celsius					

Unit of measure	No. of samples required by licence	# No. of samples collected and analysed	Date of sample	Most recent result
mg/m3	Six monthly	2	22/10/2019	<0.0002
mg/m3	Six monthly	2	11/03/2021	<0.0002
mg/m3	Quarterly	3	11/03/2021	15.00000
mg/m3	Six monthly	2	11/03/2021	<0.016
	mg/m3 mg/m3 mg/m3	Unit of measure required by licence   mg/m3 Six monthly   mg/m3 Six monthly   mg/m3 Quarterly	No. of samples required by licence samples collected and analysed   mg/m3 Six monthly 2   mg/m3 Six monthly 2   mg/m3 Quarterly 3	No. of samples required by licence samples collected and analysed Date of sample   mg/m3 Six monthly 2 22/10/2019   mg/m3 Six monthly 2 11/03/2021   mg/m3 Quarterly 3 11/03/2021

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

# Number of samples from the duct in the year to date

## EPA Indentifcation Number 9

Air emission monitoring - Boiler number 2 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres					
FIOW	per second					
Moisture	percent					
Oxygen	percent					
Temperature	degrees Celsius					

Pollutant	Unit of measure	No. of samples required by licence	# No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	4/04/2019	<0.0002
Mercury	mg/m3	Six monthly	2	10/03/2021	0.00180
Solid Particles	mg/m3	Quarterly	3	2/06/2021	46.00000
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	10/03/2021	<0.028

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Air emission monitoring - Boiler number 2 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continouus	100.0%	212.1	375.3	455.3
Suflur Dioxide	mg/m3	Continuous	100.0%	484.0	648.0	717.0

Pollutant	Unit of measure	No. of samples required by licence	# No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	2/06/2021	0.00000
Chlorine	mg/m3	Six monthly			
Fluorine	mg/m3	Six monthly			
Hydrogen chloride	mg/m3	Six monthly			
Mercury	mg/m3	Six monthly	2	2/06/2021	0.00000
Solid Particles	mg/m3	Quarterly	3	2/06/2021	34.00000
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly			
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	2/06/2021	0.00000
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly			
Carbon dioxide	percent	Six monthly	2	2/06/2021	9.50000

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

# Number of samples from the duct in the year to date

## EPA Indentifcation Number 11

Air emission monitoring - Boiler number 3 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continouus	99.8%	273.3	404.9	528.3
Suflur Dioxide	mg/m3	Continuous	99.8%	663.3	854.3	986.7
Flow	cubic metres per second					
Moisture	percent					
Oxygen	percent					
Temperature	degrees Celsius					

Pollutant	Unit of measure	No. of samples required by licence	# No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	1	3/06/2021	0.00000
Chlorine	mg/m3	Six monthly			
Fluorine	mg/m3	Six monthly			
Hydrogen chloride	mg/m3	Six monthly			
Mercury	mg/m3	Six monthly	1	3/06/2021	0.00000
Solid Particles	mg/m3	Quarterly	2	3/06/2021	28.00000
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly			
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	1	3/06/2021	0.00000
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly			
Carbon dioxide	percent	Six monthly	1	3/06/2021	10.30000

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Air emission monitoring - Boiler number 3 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres					
FIOW	per second					
Moisture	percent					
Oxygen	percent					
Temperature	degrees Celsius					

Pollutant	Unit of measure	No. of samples required by licence	# No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	1	26/03/2019	<0.0002
Mercury	mg/m3	Six monthly	1	15/09/2020	< 0.0003
Solid Particles	mg/m3	Quarterly	2	3/06/2021	42.0
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	1	15/09/2020	<0.014
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A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

# Number of samples from the duct in the year to date

#### EPA Indentifcation Number 13

## Air emission monitoring - Boiler number 4 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres					
FIOW	per second					
Moisture	percent					
Oxygen	percent					
Temperature	degrees Celsius					

Pollutant	Unit of measure	No. of samples required by licence	# No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	9/03/2021	< 0.0003
Mercury	mg/m3	Six monthly	2	9/03/2021	<0.0003
Solid Particles	mg/m3	Quarterly	4	1/06/2021	9.90000
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	9/03/2021	<0.023
A less than sign, "<", before a re	sult in the table a	bove indicates that the r	measured result w	as less than the r	elevant Limit of

A less than sign, < , before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in aech quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Air emission monitoring - Boiler number 4 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continouus	100.0%	226.2	514.0	661.9
Suflur Dioxide	mg/m3	Continuous	100.0%	513.9	813.3	977.1
Flow	cubic metres per second					
Moisture	percent					
Oxygen	percent					
Temperature	degrees Celsius					

Pollutant	Unit of measure	No. of samples required by licence	# No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	17/11/2020	0.00000
Chlorine	mg/m3	Six monthly			
Fluorine	mg/m3	Six monthly			
Hydrogen chloride	mg/m3	Six monthly			
Mercury	mg/m3	Six monthly	2	17/11/2020	0.00000
Solid Particles	mg/m3	Quarterly	4	1/06/2021	5.00000
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly			
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	17/11/2020	0.00000
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly			
Carbon dioxide	percent	Six monthly	2	1/06/2021	10.30000

Detection for that test. The Station's Environment Proetction Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

# Number of samples from the duct in the year to date

# EPA Indentifcation Number 16

Discharge to waters - Discharge quality monitoring Discharge of cooling water from the cooling water outlet canal to Lake Liddell

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ammonia	mg/L	Fortnightly	2	0.03	0.04	0.04
Antimony	mg/L	Fortnightly	2	0.007	0.01	0.008
Arsenic	mg/L	Fortnightly	2	0.006	0.01	0.006
Barium	mg/L	Fortnightly	2	0.101	0.10	0.107
Beryllium	mg/L	Fortnightly	2	< 0.001	0.00	< 0.001
Boron	mg/L	Fortnightly	2	1.25	1.25	1.25
Cadmium	mg/L	Fortnightly	2	< 0.0001	0.00	<0.0001
Chlorine	mg/L	Fortnightly	2	0.02	0.03	0.04
Chromium (trivalent)	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Chromium (VI) compounds	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Cobalt	mg/L	Fortnightly	2	<0.001	0.00	< 0.001
Conductivity	μS/cm	Fortnightly	2	2780	2825	2870
Copper	mg/L	Fortnightly	2	0.004	0.00	0.005
Fluoride	mg/L	Fortnightly	2	1.19	1.27	1.34
Lead	mg/L	Fortnightly	2	< 0.001	0.00	< 0.001
Manganese	mg/L	Fortnightly	2	0.012	0.01	0.014
Mercury	mg/L	Fortnightly	2	< 0.0001	0.00	<0.0001
Methyl Blue Active Substances	mg/L	Fortnightly	2	<0.1	0.05	<0.1
Molybdenum	mg/L	Fortnightly	2	0.12	0.12	0.123
Nickel	mg/L	Fortnightly	2	0.004	0.01	0.006
Nitrogen	mg/L	Fortnightly	2	0.5	0.50	0.5
Oil and Grease	mg/L	Weeklyduring any discarge	4	<5	2.5	<5
рН	mg/L	Daily during any discarge	31	8.3	8.4	8.5
Phosporus	mg/L	Fortnightly	2	0.02	0.03	0.04
Selenium	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Sulfur	mg/L	Fortnightly	2	710	720.00	730
Temperature	degrees Celsius	Fortnightly	2	24.3	25.15	26
Tin	mg/L	Fortnightly	2	<0.001	0.00	<0.001
Total dissolved solids	mg/L	Fortnightly	2	1880	1925.00	1970
Total organic carbon	mg/L	Fortnightly	2	7	7.00	7
Total suspended solids	mg/L	Fortnightly	2	2	2.50	3
Vanadium	mg/L	Fortnightly	2	0.01	0.01	0.01
Zinc	mg/L	Fortnightly	2	< 0.005	0.00	< 0.005

# EPA Indentifcation Number 17 Discharge to waters - Discharge quality monitoring

Discharge from oil and grit tr	ap weir overflow to Lake Liddell

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ammonia	mg/L	Fortnightly	2	0.03	0.04	0.04
Antimony	mg/L	Fortnightly	2	0.007	0.01	0.007
Arsenic	mg/L	Fortnightly	2	0.006	0.01	0.006
Barium	mg/L	Fortnightly	2	0.096	0.10	0.102
Beryllium	mg/L	Fortnightly	2	<0.001	0.00	< 0.001
Boron	mg/L	Fortnightly	2	1.16	1.20	1.23
Cadmium	mg/L	Fortnightly	2	< 0.0001	0.00	< 0.0001
Chlorine	mg/L	Fortnightly	2	0.03	0.04	0.05
Chromium (trivalent)	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Chromium (VI) compounds	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Cobalt	mg/L	Fortnightly	2	< 0.001	0.00	< 0.001
Conductivity	μS/cm	Fortnightly	2	2680	2725	2770
Copper	mg/L	Fortnightly	2	0.004	0.01	0.006
Fluoride	mg/L	Fortnightly	2	1.2	1.24	1.28
Lead	mg/L	Fortnightly	2	< 0.001	0.00	< 0.001
Manganese	mg/L	Fortnightly	2	0.007	0.01	0.012
Mercury	mg/L	Fortnightly	2	< 0.0001	0.00	< 0.0001
Methyl Blue Active Substances	mg/L	Fortnightly	2	<0.1	0.05	<0.1
Molybdenum	mg/L	Fortnightly	2	0.112	0.11	0.117
Nickel	mg/L	Fortnightly	2	0.004	0.00	0.005
Nitrogen	mg/L	Fortnightly	2	0.5	0.50	0.5
Oil and Grease	mg/L	Weeklyduring any discarge	4	<5	2.5	<5
рН	mg/L	Daily during any discarge	31	8.3	8.4	8.6
Phosporus	mg/L	Fortnightly	2	0.03	0.04	0.04
Selenium	mg/L	Fortnightly	2	< 0.01	0.01	< 0.01
Sulfur	mg/L	Fortnightly	2	640	645.00	650
Temperature	degrees Celsius	Fortnightly	2	19.9	20.8	21.7
Tin	mg/L	Fortnightly	2	<0.001	0.00	0.002
Total dissolved solids	mg/L	Fortnightly	2	1780	1820.00	1860
Total organic carbon	mg/L	Fortnightly	2	6	6.50	7
Total suspended solids	mg/L	Fortnightly	2	4	6.00	8
Vanadium	mg/L	Fortnightly	2	0.01	0.01	0.01
Zinc	mg/L	Fortnightly	2	< 0.005	0.01	0.008

# EPA Indentifcation Number 18

Discharge to waters - Discharge quality monitoring and Volume monitoring Discharge fromskimmer dam overflow spillwayto Lake Liddell

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Arsenic	mg/L	Weekly during any discharge	4	0.025	0.03325	0.053
Boron	mg/L	Weekly during any discharge	4	1.6	1.855	2.41
Cadmium	mg/L	Weekly during any discharge	4	<0.0001	0.00005	<0.0001
Chromium (trivalent)	mg/L	Weekly during any discharge	4	<0.01	0.005	<0.01
Chromium (VI) compounds	mg/L	Weekly during any discharge	4	<0.01	0.005	<0.01
Copper	mg/L	Weekly during any discharge	4	<0.001	0.001	0.002
Electrical conductivity	μS/cm	Weekly during any discharge	4	3050	3027.5	3110
Fluoride	mg/L	Weekly during any discharge	4	2.1	2.25	2.4
Lead	mg/L	Weekly during any discharge	4	<0.001	0.0005	<0.001
Mercury	mg/L	Weekly during any discharge	4	<0.0001	0.00005	<0.0001
Oil and Grease	mg/L	Weekly during any discharge	4	<5	2.5	<5
рН		Weekly during any discharge	4	8.2	8.3	8.3
Selenium	mg/L	Weekly during any discharge	4	0.02	0.035	0.06
Total suspended solids	mg/L	Weekly during any discharge	4	3	5.5	7
Zinc	mg/L	Weekly during any discharge	4	<0.005	0.004	0.009
Volume	kilolitres per day	Daily	31	43000	243677	1587000

Discharge utilisation area - Volume monitoring Discharge of effluent from the final pond of the sewage treatment system adjacent to utilisation area.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Volume	kilolitres per day	Daily	31	0.40	35.83	180.78

Details of Non-Compliance with Licence Conditions
Licence condition number not complied with
N/A
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