



# Environmental Monitoring Report

## Broadwater Power Plant 117 Pacific Highway Broadwater NSW

Licencee Cape Byron Management Pty Ltd  
Address Suite 2.03 15-21 Via Roma Isle of Capri QLD 4217  
EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>

This data is published as required under section 66(6) of the *Protection of the Environment Operations Act 1997*

Sampling Point:  
 Licencee  
 Location  
 EPL No  
 Parameters Monitored  
 Frequency & Method  
 Limits

**Monitoring Point 1 - No 12 Boiler Stack Emissions**  
 Cape Byron Management Pty Ltd  
 Broadwater Cogeneration Power Plant  
 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 see individual parameters in table  
 Annually in accordance with EPA protocols  
 see individual parameters in table



RESULTS TABLE						
			PEL 8995	AMG10146	AMG10561	AMG11093
Report Number			09-Sep-14	09-Sep-15	31-Aug-16	13-Sep-17
Sampling Date			30-Oct-14	15-Oct-15	13-Oct-16	23-Oct-17
Date Received			04-Nov-14	13-Nov-15	14-Oct-16	24-Oct-17
Date Published						
Measured Parameters	Units	Concentration Limit				
<b>dry @ STP and corrected to 7% O<sub>2</sub></b>						
Average stack gas temperature	°C	Not Applicable	78.0	85.0	102.0	94.0
Average velocity at sampling plane	m/s	Not Applicable	8.9	9.7	8.4	8.6
Gas Volumetric Flowrate	m <sup>3</sup> /sec	Not Applicable	26.7	25.5	19.9	21.9
Dry Gas Density	kg/m <sup>3</sup>	Not Applicable	1.2	1.4	1.4	1.4
Molecular Weight of Stack Gases	g/g mole	Not Applicable	26.2	30.2	30.5	30.4
Moisture content	%	Not Applicable	22.1	30.9	34.6	30.2
Concentration of carbon dioxide	%	Not Applicable	9.2	11.9	14.3	13.2
Total Solid Particles	mg/m <sup>3</sup>	<b>100</b>	21.1	31.6	26.6	26.4
Sulphuric Acid Mist & Sulphur Trioxide as SO <sub>3</sub>	mg/m <sup>3</sup>	<b>12</b>	11.8	<b>21.6</b>	8.7	3.3
Nitrogen Oxides (NOx)	mg/m <sup>3</sup>	<b>500</b>	477.0	335.0	484.0	447.0

Notes

- 1) Boiler Shutdown Approx Dec to June each year

**Sampling Point:**

Licencee  
Location  
EPL No  
Parameter/s Monitored  
Frequency & Method  
Limits

**Monitoring Point 2 - No 1 Cogeneration Boiler Stack Emissions**

Cape Byron Management Pty Ltd  
Broadwater Cogeneration Power Plant  
20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
see individual parameters in table  
Quarterly in accordance with EPA protocols  
see individual parameters in table



RESULTS TABLE													
Report Number	RESULTS TABLE												
Sampling Date	PEL- 8995	PEL 9494	PEL 9650	AMG10146	AMG 10240	AMG10437	AMG10473	AMG10561	AMG10561	AMG10776	AMG10891		
Date Received	09-Sep-14	12-Nov-14	25-Feb-15	10-Sep-15	19-Nov-15	23-Feb-16	25-May-16	31-Aug-16	18-Nov-16	21-Feb-17	09-May-17		
Date Published	30-Oct-14	02-Dec-14	19-Mar-15	15-Oct-15	15-Dec-15	16-Mar-16	04-Jul-16	13-Oct-16	16-Dec-16	27-Mar-17	06-Jun-17		
Measured Parameters dry @ STP and corrected to 7% O <sub>2</sub>	Units	Concentration Limit	04-Nov-14	19-Dec-14	08-Apr-15	13-Nov-15	20-Jan-16	31-Mar-16	03-Jun-16	14-Oct-16	23-Jan-17	13-Apr-17	19-Jun-17
Average stack gas temperature	°C	Not Applicable	69.0	75.0	70.0	75.0	68.0	66.0	69.0	74.0	71.0	67.0	65.0
Average velocity at sampling plane	m/s	Not Applicable	16.1	7.7	8.8	8.1	8.5	6.1	7.9	8.5	9.8	8.0	8.9
Dry Gas Volumetric Flowrate	m <sup>3</sup> /sec	Not Applicable	63.4	51.7	66.0	54.5	57.9	46.6	59.5	57.6	70.8	59.2	70.2
Dry Gas Density	kg/m <sup>3</sup>	Not Applicable	1.40	1.40	1.30	1.35	1.36	1.33	1.35	1.35	1.35	1.35	1.33
Molecular Weight of Stack Gases	g/g mole	Not Applicable	30.3	30.6	30.0	30.3	30.4	29.8	30.2	30.3	30.2	30.1	29.8
Moisture content	%	Not Applicable	23.0	28.1	20.5	28.0	28.2	20.1	20.6	28.1	24.4	22.3	18.3
Concentration of carbon dioxide	%	Not Applicable	12.3	14.9	10.2	7.9	13.7	11.7	11.4	12.6	11.3	11.0	8.9
Total Solid Particles	mg/m <sup>3</sup>	100	25.8	7.0	110.0	31.6	22.2	95.9	54.0	11.0	27.0	13.8	18.5
Sulphuric Acid Mist & Sulphur Trioxide as SO <sub>3</sub>	mg/m <sup>3</sup>	12	10.6	9.9	1.3	52.5	16.8	4.2	0.4	20.5	0.9	1.1	0.8
Nitrogen Oxides (NOx)	mg/m <sup>3</sup>	500	289.0	325.0	328.0	335.0	246.0	246.0	207.0	500.0	320.0	186.0	186.0

**Notes**

1) Reactor in 66 KV switchyard caught fire 3/6/15 the day prior to scheduled quarterly test triggering shutdown - testing postponed till next quarter

RESULTS TABLE												
Report Number	RESULTS TABLE											
Sampling Date	AMG11093	AMG 11123	AMG 11349									
Date Received	13-Sep-17	19-Dec-17	13-Feb-18									
Date Published	23-Oct-17	06-Feb-18	27-Feb-18									
Measured Parameters dry @ STP and corrected to 7% O <sub>2</sub>	Units	Concentration Limit	24-Oct-17	12-Feb-18	27-Apr-18							
Average stack gas temperature	°C	Not Applicable	68.6	62.0	63.1							
Average velocity at sampling plane	m/s	Not Applicable	7.3	7.0	6.9							
Dry Gas Volumetric Flowrate	m <sup>3</sup> /sec	Not Applicable	53.4	57.6	57.6							
Dry Gas Density	kg/m <sup>3</sup>	Not Applicable	1.37	1.34	1.35							
Molecular Weight of Stack Gases	g/g mole	Not Applicable	30.7	28.2	28.7							
Moisture content	%	Not Applicable	22.6	15.2	13.5							
Concentration of carbon dioxide	%	Not Applicable	14.6	10.5	13.0							
Total Solid Particles	mg/m <sup>3</sup>	100	23.8	16.4	51.0							
Sulphuric Acid Mist & Sulphur Trioxide as SO <sub>3</sub>	mg/m <sup>3</sup>	12	2.4	5.7	11.1							
Nitrogen Oxides (NOx)	mg/m <sup>3</sup>	500	246.0	158.0	239.0							

**Sampling Point:** Monitoring Point 3 - Ambient Air Monitoring  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored Particulates - Deposited Matter  
 Monitoring Frequency Continuous with sample results extrapolated from sample period of 30 ± 2 days  
 Limits Not Applicable  
 Comments Laboratory Analysis



Date Sample Collected	Date Received	Date Published	Results (g/m <sup>2</sup> /month)	Notes
16-Jun-14	23-Jun-14	12-Aug-14	0.49	
16-Jul-14	24-Jul-14	12-Aug-14	0.52	
13-Aug-14	26-Aug-14	15-Sep-14	0.92	
17-Sep-14	26-Sep-14	8-Oct-14	0.33	
15-Oct-14	22-Oct-14	4-Nov-14	1.10	
12-Nov-14	20-Nov-14	24-Nov-14	0.58	
10-Dec-14	17-Dec-14	19-Dec-14	3.24	
7-Jan-15	9-Jan-15	6-Feb-15	1.01	
19-Feb-15	25-Feb-15	9-Mar-15	1.62	
19-Mar-15	25-Mar-15	8-Apr-15	1.07	
15-Apr-15	22-Apr-15	7-May-15	0.31	
13-May-15	26-May-15	9-Jun-15	1.42	
10-Jun-15	19-Jun-15	7-Jul-15	0.42	
8-Jul-15	21-Jul-15	10-Aug-15	0.45	
5-Aug-15	7-Aug-15	10-Aug-15	0.86	
2-Sep-15	15-Sep-15	12-Oct-15	1.06	
2-Oct-15	15-Oct-15	13-Nov-15	1.41	
3-Nov-15	11-Nov-15	13-Nov-15	1.40	
1-Dec-15	15-Dec-15	20-Jan-16	4.93	
24-Dec-15	21-Jan-16	25-Feb-16	0.70	Sampling period 23 days due to shutdown from 25/12/15
22-Jan-16	2-Feb-16	25-Feb-16	0.18	
22-Feb-16	2-Mar-16	31-Mar-16	0.89	
22-Mar-16	5-Apr-16	29-Apr-16	1.85	
19-Apr-16	29-Apr-16	10-Jun-16	0.15	
17-May-16	3-Jun-16	10-Jun-16	0.59	
15-Jun-16	21-Jun-16	25-Jul-16	3.88	
15-Jul-16	25-Jul-16	19-Aug-16	1.24	
12-Aug-16	22-Aug-16	23-Sep-16	0.70	
14-Sep-16	16-Sep-16	23-Sep-16	1.31	
12-Oct-16	18-Oct-16	14-Nov-16	1.51	
10-Nov-16	15-Nov-16	13-Dec-16	1.61	
12-Dec-16	14-Dec-16	23-Jan-17	1.40	
11-Jan-17	17-Jan-17	23-Jan-17	0.84	
8-Feb-17	14-Feb-17	10-Mar-17	1.40	
9-Mar-17	15-Mar-17	13-Apr-17	0.63	
10-Apr-17	13-Apr-17	15-May-17	0.04	
10-May-17	15-May-17	19-Jun-17	0.80	
9-Jun-17	9-Jun-17	7-Aug-17	0.48	
10-Jul-17	10-Jul-17	7-Aug-17	0.02	
10-Aug-17	11-Aug-17	15-Sep-17	0.72	
8-Sep-17	8-Sep-17	15-Sep-17	1.22	
11-Oct-17	11-Oct-17	24-Oct-17	1.82	Ants
10-Nov-17	13-Nov-17	12-Nov-17	1.37	
7-Dec-17	8-Dec-17	20-Dec-17	0.89	

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 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored PM10  
 Monitoring Frequency Sampling for 24 hours every 6 Days when site is operating  
 Limits Not Applicable  
 Comments Laboratory Analysis



Date Sample Collected	Date Received	Date Published	Results (ug/m <sup>3</sup> )	Notes
3-Jun-14	20-Jun-14	12-Aug-14	13	
9-Jun-14	20-Jun-14	12-Aug-14	6	
15-Jun-14	25-Jul-14	12-Aug-14	7	
21-Jun-14	25-Jul-14	12-Aug-14	11	
27-Jun-14	25-Jul-14	12-Aug-14	20	
3-Jul-14	25-Jul-14	12-Aug-14	46	
9-Jul-14	25-Jul-14	12-Aug-14	25	
15-Jul-14	1-Sep-13	15-Sep-14	10	
21-Jul-14	1-Sep-13	15-Sep-14	5	
27-Jul-14	1-Sep-13	15-Sep-14	9	
1-Aug-14	1-Sep-13	15-Sep-14	22	
8-Aug-14	1-Sep-13	15-Sep-14	12	
14-Aug-14	30-Sep-14	8-Oct-14	9	
20-Aug-14	30-Sep-14	8-Oct-14	17	
26-Aug-14	30-Sep-14	8-Oct-14	18	
1-Sep-14	30-Sep-14	8-Oct-14	19	
7-Sep-14	30-Sep-14	8-Oct-14	10	
13-Sep-14	17-Oct-14	4-Nov-14	16	
19-Sep-14	17-Oct-14	4-Nov-14	18	
25-Sep-14	17-Oct-14	4-Nov-14	25	
1-Oct-14	17-Oct-14	4-Nov-14	40	
7-Oct-14	17-Oct-14	4-Nov-14	71	
13-Oct-14	20-Nov-14	24-Nov-14	29	
19-Oct-14	20-Nov-14	24-Nov-14	17	
25-Oct-14	20-Nov-14	24-Nov-14	54	
31-Oct-14	20-Nov-14	24-Nov-14	76	
6-Nov-14	20-Nov-14	24-Nov-14	26	
12-Nov-14	24-Dec-14	6-Feb-15	26	
18-Nov-14	24-Dec-14	6-Feb-15	36	
24-Nov-14	24-Dec-14	6-Feb-15	30	
30-Nov-14	24-Dec-14	6-Feb-15	19	
6-Dec-14	24-Dec-14	6-Feb-15	22	
12-Dec-14	15-Jan-15	7-Feb-15	13	
18-Dec-14	15-Jan-15	8-Feb-15	27	
24-Dec-14	15-Jan-15	9-Feb-15	14	
6-Jan-15	15-Jan-15	10-Feb-15	18	
11-Jan-15	15-Jan-15	11-Feb-15	15	
17-Jan-15	18-Feb-15	9-Mar-15	22	
23-Jan-15	18-Feb-15	9-Mar-15	19	
29-Jan-15	18-Feb-15	9-Mar-15	25	
4-Feb-15	18-Feb-15	9-Mar-15	16	
10-Feb-15	18-Feb-15	9-Mar-15	15	
16-Feb-15	20-Mar-15	8-Apr-15	12	
22-Feb-15	20-Mar-15	8-Apr-15	11	
28-Feb-15	20-Mar-15	8-Apr-15	10	
6-Mar-15	20-Mar-15	8-Apr-15	32	
12-Mar-15	20-Mar-15	8-Apr-15	12	
18-Mar-15	27-Apr-15	7-May-15	6	
24-Mar-15	27-Apr-15	7-May-15	20	
30-Mar-15	27-Apr-15	7-May-15	13	
5-Apr-15	27-Apr-15	7-May-15	5	
11-Apr-15	27-Apr-15	7-May-15	4	
17-Apr-15	20-May-15	9-Jun-15	17	
23-Apr-15	20-May-15	9-Jun-15	24	
29-Apr-15	20-May-15	9-Jun-15	8	
5-May-15	20-May-15	9-Jun-15	12	
11-May-15	20-May-15	9-Jun-15	21	
17-May-15	25-Jun-15	7-Jul-15	11	
23-May-15	25-Jun-15	7-Jul-15	12	
29-May-15	25-Jun-15	7-Jul-15	14	
4-Jun-15	25-Jun-15	7-Jul-15	17	
10-Jun-15	25-Jun-15	7-Jul-15	12	
16-Jun-15	6-Aug-15	10-Aug-15	5	
22-Jun-15	6-Aug-15	10-Aug-15	22	
28-Jun-15	6-Aug-15	10-Aug-15	12	
4-Jul-15	6-Aug-15	10-Aug-15	33	

**Sampling Point:** Monitoring Point 3 - Ambient Air Monitoring  
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 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored PM10  
 Monitoring Frequency Sampling for 24 hours every 6 Days when site is operating  
 Limits Not Applicable  
 Comments Laboratory Analysis



Date Sample Collected	Date Received	Date Published	Results (ug/m <sup>3</sup> )	Notes
10-Jul-15	6-Aug-15	10-Aug-15	11	
16-Jul-15	24-Aug-15	8-Sep-15	35	
22-Jul-15	24-Aug-05	8-Sep-15	5	
28-Jul-15	24-Aug-95	8-Sep-15	31	
3-Aug-15	24-Aug-85	8-Sep-15	31	
9-Aug-15	24-Aug-75	8-Sep-15	23	
15-Aug-15		12-Oct-15		No result due to operation error and filter paper was discarded
21-Aug-15	24-Sep-15	12-Oct-15	13	
27-Aug-15	24-Sep-15	12-Oct-15	6	
2-Sep-15	24-Sep-15	12-Oct-15	10	
8-Sep-15	24-Sep-15	12-Oct-15	7	
14-Sep-15	24-Sep-15	12-Oct-15	8	
20-Sep-15	29-Oct-15	13-Nov-15	5	
26-Sep-15	29-Oct-15	13-Nov-15	3	
2-Oct-15	29-Oct-15	13-Nov-15	25	
8-Oct-15	29-Oct-15	13-Nov-15	25	
14-Oct-15	29-Oct-15	13-Nov-15	6	
20-Oct-15	24-Nov-15	15-Dec-15	8	
26-Oct-15	24-Nov-15	15-Dec-15	6	
1-Nov-15	24-Nov-15	15-Dec-15	13	
7-Nov-15	24-Nov-15	15-Dec-15	11	
13-Nov-15	24-Nov-15	15-Dec-15	5	
19-Nov-15	23-Dec-15	20-Jan-16	24	
25-Nov-12	23-Dec-15	20-Jan-16	19	
1-Dec-15	23-Dec-15	20-Jan-16	16	
7-Dec-15	23-Dec-15	20-Jan-16	22	
13-Dec-15	23-Dec-15	20-Jan-16	25	
19-Dec-15	4-Feb-16	25-Feb-16	8	
25-Dec-15	4-Feb-16	25-Feb-16	6	
				Shut down from 25/12/15 to 10/1/16
				Shut down from 25/12/15 to 10/1/16
12-Jan-16	4-Feb-16	25-Feb-16	28	
18-Jan-16	4-Feb-16	25-Feb-16	8	
24-Jan-16	4-Feb-16	25-Feb-16	14	
30-Jan-16	4-Mar-16	31-Mar-16	9	
5-Feb-16	4-Mar-16	31-Mar-16	10	
11-Feb-16	4-Mar-16	31-Mar-16	14	
17-Feb-16	4-Mar-16	31-Mar-16	28	
23-Feb-16	4-Mar-16	29-Apr-16	15	
29-Feb-16	5-Apr-16	29-Apr-16	25	
6-Mar-16	5-Apr-16	29-Apr-16	9	
12-Mar-16	5-Apr-16	29-Apr-16	13	
18-Mar-16	5-Apr-16	29-Apr-16	18	
24-Mar-16	5-Apr-16	29-Apr-16	15	
31-Mar-16	5-May-16	10-Jun-16	22	Sampling on 31/3/16 instead of 30/3/16 due to Easter shut down
5-Apr-16	5-May-16	10-Jun-16	28	
11-Apr-16	5-May-16	10-Jun-16	17	
17-Apr-16	5-May-16	10-Jun-16	5	
23-Apr-16	5-May-16	10-Jun-16	10	
29-Apr-16	31-May-16	10-Jun-16	15	
5-May-16	31-May-16	10-Jun-16	32	
11-May-16	31-May-16	10-Jun-16	50	
17-May-16	31-May-16	10-Jun-16	61	
23-May-16	31-May-16	10-Jun-16	13	
29-May-16	5-Aug-16	19-Aug-16	4	
4-Jun-16	5-Aug-16	19-Aug-16	5	
10-Jun-16	5-Aug-16	19-Aug-16	7	
16-Jun-16	5-Aug-16	19-Aug-16	10	
22-Jun-16	5-Aug-16	19-Aug-16	4	
28-Jun-16	2-Aug-16	19-Aug-16	7	
4-Jul-16	2-Aug-16	19-Aug-16	30	
10-Jul-16	2-Aug-16	19-Aug-16	16	
16-Jul-16	2-Aug-16	19-Aug-16	14	
22-Jul-16	2-Aug-16	19-Aug-16	20	

**Sampling Point:** Monitoring Point 3 - Ambient Air Monitoring  
 Licencee Cape Byron Management Pty Ltd  
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 Parameters Monitored PM10  
 Monitoring Frequency Sampling for 24 hours every 6 Days when site is operating  
 Limits Not Applicable  
 Comments Laboratory Analysis



Date Sample Collected	Date Received	Date Published	Results (ug/m <sup>3</sup> )	Notes
28-Jul-16	1-Aug-16	23-Sep-16	33	
3-Aug-16	1-Aug-16	23-Sep-16	12	
9-Aug-16	1-Aug-16	23-Sep-16	16	
15-Aug-16	1-Aug-16	23-Sep-16	19	
21-Aug-16	1-Aug-16	23-Sep-16	11	
27-Aug-16	5-Oct-16	14-Oct-16	5	
2-Sep-16	5-Oct-16	14-Oct-16	28	
8-Sep-16	5-Oct-16	14-Oct-16	20	
14-Sep-16	5-Oct-16	14-Oct-16	42	
20-Sep-16	5-Oct-16	14-Oct-16	19	
26-Sep-16	4-Nov-16	14-Nov-16	15	
2-Oct-16	4-Nov-16	14-Nov-16	13	
8-Oct-16	4-Nov-16	14-Nov-16	25	
14-Oct-16	4-Nov-16	14-Nov-16	17	
20-Oct-16	4-Nov-16	14-Nov-16	27	
26-Oct-16	12-Dec-16	13-Dec-16	36	
1-Nov-16	12-Dec-16	13-Dec-16	23	
7-Nov-16	12-Dec-16	13-Dec-16	37	
13-Nov-16	12-Dec-16	13-Dec-16	23	
19-Nov-16	12-Dec-16	13-Dec-16	16	
25-Nov-16	30-Dec-16	23-Jan-17	29	
1-Dec-16	30-Dec-16	23-Jan-17	25	
7-Dec-16	30-Dec-16	23-Jan-17	17	
13-Dec-16	30-Dec-16	23-Jan-17	27	
19-Dec-16	30-Dec-16	23-Jan-17	36	
25-Dec-16	3-Feb-17	10-Feb-17	23	
31-Dec-16	3-Feb-17	10-Feb-17	n/a	No sample collected because there was an error with machine setting.
6-Jan-17	3-Feb-17	10-Feb-17	9	
12-Jan-17	3-Feb-17	10-Feb-17	22	
18-Jan-17	3-Feb-17	10-Feb-17	42	
24-Jan-17	3-Feb-17	10-Feb-17	31	
30-Jan-17	10-Mar-17	10-Mar-17	24	
5-Feb-17	10-Mar-17	10-Mar-17	42	
11-Feb-17	10-Mar-17	10-Mar-17	34	
17-Feb-17	10-Mar-17	10-Mar-17	47	
23-Feb-17	10-Mar-17	10-Mar-17	22	
1-Mar-17	5-Apr-17	13-Apr-17	16	
7-Mar-17	5-Apr-17	13-Apr-17	21	
13-Mar-17	5-Apr-17	13-Apr-17	15	
19-Mar-17	5-Apr-17	13-Apr-17	16	
25-Mar-17	5-Apr-17	13-Apr-17	10	
31-Mar-17	17-May-17	19-Jun-17	13	
6-Apr-17	17-May-17	19-Jun-17	8	
12-Apr-17	17-May-17	19-Jun-17	11	
18-Apr-17	17-May-17	19-Jun-17	20	
24-Apr-17	17-May-17	19-Jun-17	20	
30-Apr-17	8-Jun-17	19-Jun-17	6	
6-May-17	8-Jun-17	19-Jun-17	6	
12-May-17	8-Jun-17	19-Jun-17	6	
18-May-17	8-Jun-17	19-Jun-17	23	
24-May-17	8-Jun-17	19-Jun-17	38	
30-May-17	4-Aug-17	15-Aug-17	26	
5-Jun-17	4-Aug-17	15-Aug-17	23	
11-Jun-17	4-Aug-17	15-Aug-17	22	
17-Jun-17	4-Aug-17	15-Aug-17	2	
23-Jun-17	4-Aug-17	15-Aug-17	23	
29-Jun-17	4-Aug-17	15-Aug-17	57	
5-Jul-17	4-Aug-17	15-Aug-17	19	
11-Jul-17	4-Aug-17	15-Aug-17	12	
17-Jul-17	15-Sep-17	12-Oct-17	8	
23-Jul-17	15-Sep-17	12-Oct-17	23	
29-Jul-17	15-Sep-17	12-Oct-17	28	
30-Jul-17	15-Sep-17	12-Oct-17	44	
10-Aug-17	15-Sep-17	12-Oct-17	39	
16-Aug-17	15-Sep-17	12-Oct-17	122	

**Sampling Point:** Monitoring Point 3 - Ambient Air Monitoring  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored PM10  
 Monitoring Frequency Sampling for 24 hours every 6 Days when site is operating  
 Limits Not Applicable  
 Comments Laboratory Analysis



Date Sample Collected	Date Received	Date Published	Results (ug/m <sup>3</sup> )	Notes
22-Aug-17	15-Sep-17	12-Oct-17	28	
28-Aug-17	15-Sep-17	12-Oct-17	29	
3-Sep-17	15-Sep-17	12-Oct-17	54	
9-Sep-17	15-Sep-17	12-Oct-17	31	
15-Sep-17	16-Oct-17	23-Oct-17	27	
21-Sep-17	16-Oct-17	23-Oct-17	33	
27-Sep-17	16-Oct-17	23-Oct-17	53	
3-Oct-17	16-Oct-17	23-Oct-17	10	
9-Oct-17	16-Oct-17	23-Oct-17	44	
15-Oct-17	13-Nov-17	23-Nov-17	25	
21-Oct-17	13-Nov-17	23-Nov-17	10	
27-Oct-17	13-Nov-17	23-Nov-17	30	
2-Nov-17	13-Nov-17	23-Nov-17	20	
8-Nov-17	13-Nov-17	23-Nov-17	11	
14-Nov-17	14-Dec-17	20-Dec-17	14	
20-Nov-17	14-Dec-17	20-Dec-17	18	
26-Nov-17	14-Dec-17	20-Dec-17	15	
2-Dec-17	14-Dec-17	20-Dec-17	15	
8-Dec-17	8-Jan-18	17-Jan-18	30	
14-Dec-17	8-Jan-18	17-Jan-18	32	
20-Dec-17	8-Jan-18	17-Jan-18	28	
26-Dec-17	8-Jan-18	17-Jan-18	13	



**Sampling Point: Monitoring Point 4 - Ambient Air Monitoring**

Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameter Particulates - Deposited Matter  
 Frequency Continuous with sample results extrapolated from sample period of 30 ± 2 days  
 Limits Not Applicable  
 Comments Laboratory Analysis



Date Sample Collected	Date Received	Date Published	Results (g/m <sup>2</sup> /month)	Notes
16-Jun-14	23-Jun-14	12-Aug-14	1	
16-Jul-14	24-Jul-14	12-Aug-14	3	
13-Aug-14	26-Aug-14	15-Sep-14	2	
17-Sep-14	26-Sep-14	8-Oct-14	0	
15-Oct-14	22-Oct-14	4-Nov-14	2	
12-Nov-14	20-Nov-14	24-Nov-14	1	
10-Dec-14	17-Dec-14	19-Dec-14	1	
7-Jan-15	9-Jan-15	6-Feb-15	1	
19-Feb-15	25-Feb-15	9-Mar-15		No results due to sample bottle was broken
19-Mar-15	25-Mar-15	8-Apr-15	1	
15-Apr-15	22-Apr-15	7-May-15		No results due to sample bottle was broken
13-May-15	26-May-15	9-Jun-15	5	
10-Jun-15	19-Jun-15	7-Jul-15	0	
8-Jul-15	21-Jul-15	10-Aug-15	1	
5-Aug-15	7-Aug-15	10-Aug-15	1	
2-Sep-15	15-Sep-15	12-Oct-15	1	
2-Oct-15	15-1015	13-Nov-15	1	
3-Nov-15	11-Nov-15	13-Nov-15	1	
1-Dec-15	15-Dec-15	20-Jan-16	3	
24-Dec-15	21-Jan-16	25-Feb-16	0	Sampling period 23 days due to mill shutdown
22-Jan-16	2-Feb-16	25-Feb-16	0	
23-Feb-16	2-Mar-16	31-Mar-16	1	
22-Mar-16	5-Apr-16	29-Apr-16	1	
19-Apr-16	29-Apr-16	10-Jun-16	0	
17-May-16	3-Jun-16	10-Jun-16	1	
15-Jun-16	21-Jun-16	25-Jul-16	4	
15-Jul-16	25-Jul-16	19-Aug-16	2	
12-Aug-16	22-Aug-16	23-Sep-16	2	
14-Sep-16	16-Sep-16	23-Sep-16	2	
12-Oct-16	18-Oct-16	14-Nov-16	1	
10-Nov-16	15-Nov-16	13-Dec-16	2	
12-Dec-16	14-Dec-16	23-Jan-17	4	
11-Jan-17	17-Jan-17	23-Jan-17	1	
8-Feb-17	14-Feb-17	10-Mar-17	1	
9-Mar-17	15-Mar-17	13-Apr-17	1	
10-Apr-17	13-Apr-17	15-May-17	0	
10-May-17	15-May-17	19-Jun-17	1	
9-Jun-17	9-Jun-17	7-Aug-17	0	
10-Jul-17	10-Jul-17	7-Aug-17	0	
10-Aug-17	11-Aug-17	15-Sep-17	1	
8-Sep-17	8-Sep-17	15-Sep-17	2	
11-Oct-17	11-Oct-17	24-Oct-17	1	Ants
10-Nov-17	13-Nov-17	12-Nov-17	1	
7-Dec-17	8-Dec-17	20-Dec-17	3	cloudy/org matter

**Sampling Point:** Monitoring Point 5 - Ambient Air Monitoring  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Power Plant Fuel Stockpile  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored Particulates - Deposited Matter  
 Monitoring Frequency Continuous with sample results extrapolated from sample period of 30 ± 2 days  
 Limits Not Applicable  
 Comments Laboratory Analysis



Date Sample Collected	Date Received	Date Published	Results (g/m <sup>2</sup> /month)	Notes
16-Jun-14	23-Jun-14	12-Aug-14	0.52	
16-Jul-14	24-Jul-14	12-Aug-14	1.01	
13-Aug-14	26-Aug-14	15-Sep-14	1.21	
17-Sep-14	26-Sep-14	8-Oct-14	0.33	
15-Oct-14	22-Oct-14	4-Nov-14	1.89	
12-Nov-14	20-Nov-14	24-Nov-14	0.64	
10-Dec-14	17-Dec-14	19-Dec-14	1.36	
7-Jan-15	9-Jan-15	6-Feb-15	0.93	
19-Feb-15	25-Feb-15	9-Mar-15	2.08	
19-Mar-15	25-Mar-15	8-Apr-15	1.80	
15-Apr-15	22-Apr-15	7-May-15	0.79	
13-May-15	26-May-15	9-Jun-15	4.00	
10-Jun-15	19-Jun-15	7-Jul-15	1.08	
8-Jul-15	21-Jul-15	10-Aug-15	0.56	
5-Aug-15	7-Aug-15	10-Aug-15	1.17	
2-Sep-15	15-Sep-15	12-Oct-15	1.67	
2-Oct-15	15-Oct-15	13-Nov-15	1.50	
3-Nov-15	11-Nov-15	13-Nov-15	2.01	
1-Dec-15	15-Dec-15	20-Jan-16	4.99	
24-Dec-15	21-Jan-16	25-Feb-16	3.74	Sampling period 23 days due to mill shutdown
22-Jan-16	2-Feb-16	25-Feb-16	0.95	
23-Feb-16	2-Mar-16	31-Mar-16	1.28	
22-Mar-16	5-Apr-16	29-Apr-16	2.29	
19-Apr-16	29-Apr-16	10-Jun-16	0.95	
17-May-16	3-Jun-16	10-Jun-16	1.73	
15-Jun-16	21-Jun-16	25-Jul-16	8.14	
15-Jul-16	25-Jul-16	19-Aug-16	1.72	
12-Aug-16	22-Aug-16	23-Sep-16	1.49	
14-Sep-16	16-Sep-16	23-Sep-16	1.16	
12-Oct-16	18-Oct-16	14-Nov-16	1.39	
10-Nov-16	15-Nov-16	13-Dec-16	1.43	
12-Dec-16	14-Dec-16	23-Jan-17	1.37	
11-Jan-17	17-Jan-17	23-Jan-17	0.98	
8-Feb-17	14-Feb-17	10-Mar-17	1.27	
9-Mar-17	15-Mar-17	13-Apr-17	2.53	
10-Apr-17	13-Apr-17	15-May-17	0.24	
10-May-17	15-May-17	19-Jun-17	1.18	
9-Jun-17	9-Jun-17	7-Aug-17	1.14	
10-Jul-17	10-Jul-17	7-Aug-17	0.02	
10-Aug-17	11-Aug-17	15-Sep-17	0.49	
8-Sep-17	8-Sep-17	15-Sep-17	1.78	
11-Oct-17	11-Oct-17	24-Oct-17	1.38	Cloudy/Org. Matter present / ants
10-Nov-17	13-Nov-17	12-Nov-17	1.40	
7-Dec-17	8-Dec-17	20-Dec-17	1.34	

**Sampling Point: Monitoring Point 6 - O<sub>2</sub> Monitoring No 1 Cogeneration Boiler**

Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored Oxygen  
 Monitoring Frequency Continuous Online Sampling  
 Limit No Limits Prescribed



The results in the table provide a fortnightly summary of the minimum, maximum and mean daily values for the period indicated

Comments

MONITORING PERIOD			Oxygen (%)			Notes
Date Start	Date Finish	Date Published	Minimum Value	Mean Value	Maximum Value	
						Boiler Shutdown Period
2-Jun-14	15-Jun-14	12-Aug-14	0.00	6.48	21.50	
14-Jul-14	27-Jul-14	12-Aug-14	10.00	5.08	9.00	
28-Jul-14	10-Aug-14	22-Aug-14	2.40	8.60	2.12	
11-Aug-14	24-Aug-14	15-Sep-14	0.00	8.51	21.20	
25-Aug-14	7-Sep-14	15-Sep-14	2.50	7.16	14.30	
8-Sep-14	21-Sep-14	8-Oct-14	0.40	4.85	20.50	
22-Sep-14	5-Oct-14	4-Nov-14	2.60	5.95	18.10	
6-Oct-14	19-Oct-14	4-Nov-14	2.50	4.46	20.70	
20-Oct-14	2-Nov-14	24-Nov-14	2.50	4.70	20.90	
3-Nov-14	16-Nov-14	24-Nov-14	2.30	4.61	21.00	
17-Nov-14	30-Nov-14	19-Dec-14	1.80	4.88	20.80	
1-Dec-14	14-Dec-14	19-Dec-14	1.80	4.82	19.50	
						Boiler Shutdown 19/12/14-5/1/15
5-Jan-15	18-Jan-15	6-Feb-15	4.60	8.60	21.00	
19-Jan-15	1-Feb-15	6-Feb-15	0.00	7.47	20.90	
2-Feb-15	15-Feb-15	9-Mar-15	0.00	6.68	20.70	
16-Feb-15	1-Mar-15	9-Mar-15	3.70	6.96	21.00	
2-Mar-15	15-Mar-15	8-Apr-15	0.00	6.90	20.40	
16-Mar-15	29-Mar-15	7-May-15	4.10	8.11	20.90	
30-Mar-15	12-Apr-15	7-May-15	4.90	7.52	18.70	
13-Apr-15	26-Apr-15	7-May-15	4.30	7.49	18.70	
27-Apr-15	10-May-15	9-Jun-15	4.80	6.84	15.00	
11-May-15	24-May-15					Boiler Shutdown 1/5/15 to 29/5/15
25-May-15	7-Jun-15	7-Jul-15	4.00	8.74	20.80	
8-Jun-15	21-Jun-15	7-Jul-15	2.80	6.86	17.00	
22-Jun-15	5-Jul-15	10-Aug-15	2.20	5.75	20.50	
6-Jul-15	19-Jul-15	10-Aug-15	2.10	4.93	18.20	
20-Jul-15	2-Aug-15	10-Aug-15	2.40	5.73	20.70	
3-Aug-15	16-Aug-15	8-Sep-15	2.20	5.66	17.00	
17-Aug-15	30-Aug-15	8-Sep-15	2.00	5.41	20.50	
31-Aug-15	13-Sep-15	12-Oct-15	1.60	4.29	14.60	
14-Sep-15	27-Sep-15	12-Oct-15	1.00	4.59	19.90	
28-Sep-15	11-Oct-15	15-Dec-15	0.00	4.68	20.90	
12-Oct-15	25-Oct-15	15-Dec-15	1.00	4.53	16.30	
26-Oct-15	8-Nov-15	15-Dec-15	0.80	4.30	20.80	
9-Nov-15	22-Nov-15	15-Dec-15	1.70	4.58	19.70	
23-Nov-15	6-Dec-15	15-Dec-15	0.00	4.51	14.70	
7-Dec-15	20-Dec-15	20-Jan-16	-0.80	5.59	20.90	
21-Dec-15	3-Jan-16	20-Jan-16	No Data	No Data	No Data	Shutdown Period
4-Jan-16	17-Jan-16	25-Feb-16	4.60	7.89	16.00	
18-Jan-16	31-Jan-16	25-Feb-16	3.60	7.01	20.50	
1-Feb-16	14-Feb-16	25-Feb-16	3.40	7.01	20.70	
15-Feb-16	28-Feb-16	31-Mar-16	3.40	8.07	12.30	
29-Feb-16	13-Mar-16	31-Mar-16	3.90	6.77	11.30	
14-Mar-16	27-Mar-16	29-Apr-16	0.00	6.61	21.10	
28-Mar-16	10-Apr-16	29-Apr-16	1.40	6.37	21.10	
11-Apr-16	24-Apr-16	29-Apr-16	No Data	No Data	No Data	Shutdown Period
25-Apr-16	8-May-16	10-Jun-16	3.10	6.60	20.60	
9-May-16	22-May-16	10-Jun-16	3.20	6.47	20.90	
23-May-16	5-Jun-16	25-Jul-16	0.00	4.06	20.50	
6-Jun-16	19-Jun-16	25-Jul-16	2.20	5.11	18.70	
20-Jun-16	3-Jul-16	25-Jul-16	0.00	3.39	18.70	
4-Jul-16	17-Jul-16	19-Aug-16	2.20	3.59	17.60	
18-Jul-16	31-Jul-16	19-Aug-16	1.50	3.73	16.30	
1-Aug-16	14-Aug-16	19-Aug-16	1.70	4.59	17.50	
15-Aug-16	28-Aug-16	23-Sep-16	0.00	1.80	3.00	
29-Aug-16	11-Sep-16	23-Sep-16	0.40	3.46	10.30	
12-Sep-16	25-Sep-16	14-Oct-16	0.30	3.22	21.10	
26-Sep-16	9-Oct-16	14-Oct-16	0.00	3.87	21.00	
10-Oct-16	23-Oct-16	14-Nov-16	1.30	3.34	6.40	
24-Oct-16	6-Nov-16	14-Nov-16	0.00	3.46	20.60	
7-Nov-16	20-Nov-16	13-Dec-16	1.30	5.15	21.00	
21-Nov-16	4-Dec-16	13-Dec-16	1.20	4.35	20.80	
5-Dec-16	18-Dec-16	23-Jan-17	2.60	6.55	21.00	
19-Dec-16	1-Jan-17	23-Jan-17	3.70	5.44	16.60	
2-Jan-17	15-Jan-17	23-Jan-17	3.00	5.47	21.00	
16-Jan-17	29-Jan-17	10-Feb-17	3.30	6.39	20.80	
30-Jan-17	12-Feb-17	10-Mar-17	2.80	5.74	20.50	
13-Feb-17	26-Feb-17	10-Mar-17	1.00	5.47	20.80	
27-Feb-17	12-Mar-17	13-Apr-17	0.20	5.30	20.80	
13-Mar-17	26-Mar-17	13-Apr-17	3.40	5.96	19.40	Shut 19/03/17 - 11/04/17

**Sampling Point: Monitoring Point 6 - O<sub>2</sub> Monitoring No 1 Cogeneration Boiler**

Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored Oxygen  
 Monitoring Frequency Continuous Online Sampling  
 Limit No Limits Prescribed



The results in the table provide a fortnightly summary of the minimum, maximum and mean daily values for the period indicated

Comments

MONITORING PERIOD			Oxygen (%)			Notes
Date Start	Date Finish	Date Published	Minimum Value	Mean Value	Maximum Value	
27-Mar-17	9-Apr-17	13-Apr-17	n/a	n/a	n/a	Shut 19/03/17 - 11/04/17
10-Apr-17	23-Apr-17	15-May-17	2.70	6.44	20.10	
24-Apr-17	7-May-17	15-May-17	0.00	6.66	17.90	
8-May-17	21-May-17	19-Jun-17	3.60	6.42	16.90	
22-May-17	4-Jun-17	19-Jun-17	3.20	6.36	20.60	
5-Jun-17	18-Jun-17	15-Aug-17	3.60	6.37	9.40	
19-Jun-17	2-Jul-17	15-Aug-17	1.60	7.48	21.30	
3-Jul-17	16-Jul-17	15-Aug-17	2.20	4.22	20.90	
17-Jul-17	30-Jul-17	15-Aug-17	1.80	4.60	21.20	
31-Jul-17	13-Aug-17	19-Sep-17	1.80	3.76	7.20	
14-Aug-17	27-Aug-17	19-Sep-17	1.40	4.52	21.20	
28-Aug-17	10-Sep-17	19-Sep-17	0.00	4.66	21.20	
11-Sep-17	24-Sep-17	13-Oct-17	2.30	4.40	21.20	
25-Sep-17	8-Oct-17	16-Nov-17	0.00	4.83	21.00	
9-Oct-17	22-Oct-17	16-Nov-17	1.40	4.81	21.30	
23-Oct-17	5-Nov-17	16-Nov-17	1.60	4.51	21.10	
6-Nov-17	19-Nov-17	15-Dec-17	1.30	4.77	21.20	
20-Nov-17	3-Dec-17	15-Dec-17	2.50	4.57	21.20	
4-Dec-17	17-Dec-17	16-Jan-18	2.50	9.11	21.20	
18-Dec-17	31-Dec-17	16-Jan-18	0.00	5.75	21.20	

**Sampling Point:** Monitoring Point 7 - O<sub>2</sub> Monitoring No 12 Boiler  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.environment.nsw.gov.au/>  
 Parameters Monitored Oxygen  
 Monitoring Frequency Continuous Online Sampling  
 Limit No Limits Prescribed



The results in the table provide a fortnightly summary of the minimum, maximum and mean daily values for the period indicated

Comments

MONITORING PERIOD			Oxygen (%)			Notes
Date Start	Date Finish	Date Published	Minimum Value	Maximum Value	Mean Value	
						Boiler Not Operating
						Boiler Not Operating
2-Jun-14	15-Jun-14	12-Aug-14				
14-Jul-14	27-Jul-14	12-Aug-14	0.00	3.91	20.60	
28-Jul-14	10-Aug-14	22-Aug-14	0.00	4.73	20.90	
11-Aug-14	24-Aug-14	15-Sep-14	1.32	5.17	20.20	
25-Aug-14	7-Sep-14	15-Sep-14	0.00	6.04	20.69	0-Jan-00
8-Sep-14	21-Sep-14	8-Oct-14	1.24	4.92	19.92	5-Jan-00
22-Sep-14	5-Oct-14	4-Nov-14	0.00	4.52	20.94	20-Jan-00
6-Oct-14	19-Oct-14	4-Nov-14	1.50	3.85	18.63	
20-Oct-14	2-Nov-14	24-Nov-14	0.93	3.98	20.82	
3-Nov-14	16-Nov-14	24-Nov-14	0.00	5.22	18.79	
17-Nov-14	30-Nov-14	19-Dec-14	0.32	4.94	19.75	
1-Dec-14	14-Dec-14	19-Dec-14	0.00	5.86	19.95	Boiler Shutdown 11th Dec 2014
5-Jan-15	18-Jan-15	6-Feb-15				Boiler Not Operating
19-Jan-15	1-Feb-15	6-Feb-15				Boiler Not Operating
2-Feb-15	15-Feb-15	9-Mar-15				Boiler Not Operating
16-Feb-15	1-Mar-15	9-Mar-15				Boiler Not Operating
2-Mar-15	15-Mar-15	8-Apr-15				Boiler Not Operating
16-Mar-15	29-Mar-15	7-May-15				Boiler Not Operating
30-Mar-15	12-Apr-15	7-May-15				Boiler Not Operating
13-Apr-15	26-Apr-15	7-May-15				Boiler Not Operating
27-Apr-15	10-May-15	9-Jun-15				Boiler Not Operating
11-May-15	24-May-15	9-Jun-15				Boiler Not Operating
25-May-15	7-Jun-15	7-Jul-15				Boiler Not Operating
8-Jun-15	21-Jun-15	7-Jul-15				Boiler Not Operating
22-Jun-15	5-Jul-15	10-Aug-15	4.84	9.04	18.90	
6-Jul-15	19-Jul-15	10-Aug-15	0.00	5.65	18.91	
20-Jul-15	2-Aug-15	10-Aug-15	0.00	4.81	16.21	
3-Aug-15	16-Aug-15	8-Sep-15	0.00	5.77	20.12	
17-Aug-15	30-Aug-15	8-Sep-15	0.00	5.80	19.52	
31-Aug-15	13-Sep-15	12-Oct-15	0.49	4.43	20.60	
14-Sep-15	27-Sep-15	12-Oct-15	0.78	5.01	19.64	
28-Sep-15	11-Oct-15	15-Dec-15	No Data	No Data	No Data	Meter Failure - No Data Available
12-Oct-15	25-Oct-15	15-Dec-15	No Data	No Data	No Data	Meter Failure - No Data Available
26-Oct-15	8-Nov-15	15-Dec-15	No Data	No Data	No Data	Meter Failure - No Data Available
9-Nov-15	22-Nov-15	15-Dec-15	No Data	No Data	No Data	Meter Failure - No Data Available
23-Nov-15	6-Dec-15	15-Dec-15	No Data	No Data	No Data	Meter Failure - No Data Available
7-Dec-15	20-Dec-15	20-Jan-16	No Data	No Data	No Data	Meter Failure - No Data Available
21-Dec-15	3-Jan-16	20-Jan-16	No Data	No Data	No Data	Boiler Not Operating
4-Jan-16	17-Jan-16	20-Jan-16	No Data	No Data	No Data	Boiler Not Operating
18-Jan-16	31-Jan-16	25-Feb-16	No Data	No Data	No Data	Boiler Not Operating
1-Feb-16	14-Feb-16	25-Feb-16	No Data	No Data	No Data	Boiler Not Operating
15-Feb-16	28-Feb-16	31-Mar-16	No Data	No Data	No Data	Boiler Not Operating
29-Feb-16	13-Mar-16	31-Mar-16	No Data	No Data	No Data	Boiler Not Operating
14-Mar-16	27-Mar-16	29-Apr-16	No Data	No Data	No Data	Boiler Not Operating
28-Mar-16	10-Apr-16	29-Apr-16	No Data	No Data	No Data	Boiler Not Operating
11-Apr-16	24-Apr-16	29-Apr-16	No Data	No Data	No Data	Boiler Not Operating
25-Apr-16	8-May-16	10-Jun-16	No Data	No Data	No Data	Boiler Not Operating
9-May-16	22-May-16	10-Jun-16	No Data	No Data	No Data	Boiler Not Operating
23-May-16	5-Jun-16	25-Jul-16	No Data	No Data	No Data	Boiler Not Operating
6-Jun-16	19-Jun-16	25-Jul-16	No Data	No Data	No Data	Boiler Not Operating
20-Jun-16	3-Jun-16	25-Jul-16	No Data	No Data	No Data	Boiler Not Operating
4-Jul-16	17-Jul-16	19-Aug-16	2.62	19.94	4.80	Boiler Not Operating till 13/07/16
18-Jul-16	31-Jul-16	19-Aug-16	0.02	19.22	5.20	
1-Aug-16	14-Aug-16	19-Aug-16	0.02	16.91	4.88	
15-Aug-16	28-Aug-16	14-Oct-16	0.02	20.12	6.67	
29-Aug-16	11-Sep-16	14-Oct-16	0.02	20.06	5.69	
12-Sep-16	25-Sep-16	14-Oct-16	0.23	18.04	4.03	
26-Sep-16	9-Oct-16	14-Nov-16	0.02	19.37	4.11	
10-Oct-16	23-Oct-16	14-Nov-16	1.48	19.13	4.96	
24-Oct-16	6-Nov-16	13-Dec-16	1.07	17.99	4.28	
7-Nov-16	20-Nov-16	13-Dec-16	0.11	19.47	5.34	Boiler stopped operation on 29/11/16 for the
21-Nov-16	4-Dec-16	13-Dec-16	0.20	19.14	5.82	
5-Dec-16	18-Dec-16	23-Jan-17	No Data	No Data	No Data	Boiler Not Operating
19-Dec-16	1-Jan-17	23-Jan-17	No Data	No Data	No Data	Boiler Not Operating
2-Jan-17	15-Jan-17	23-Jan-17	No Data	No Data	No Data	Boiler Not Operating
16-Jan-17	29-Jan-17	10-Feb-17	No Data	No Data	No Data	Boiler Not Operating
30-Jan-17	12-Feb-17	10-Mar-17	No Data	No Data	No Data	Boiler Not Operating
13-Feb-17	26-Feb-17	10-Mar-17	No Data	No Data	No Data	Boiler Not Operating
27-Feb-17	12-Mar-17	13-Apr-17	No Data	No Data	No Data	Boiler Not Operating
13-Mar-17	26-Mar-17	13-Apr-17	No Data	No Data	No Data	Boiler Not Operating
27-Mar-17	9-Apr-17	13-Apr-17	No Data	No Data	No Data	Boiler Not Operating
10-Apr-17	23-Apr-17	15-May-17	No Data	No Data	No Data	Boiler Not Operating
24-Apr-17	7-May-17	15-May-17	No Data	No Data	No Data	Boiler Not Operating
8-May-17	21-May-17	19-Jun-17	No Data	No Data	No Data	Boiler Not Operating
22-May-17	4-Jun-17	19-Jun-17	No Data	No Data	No Data	Boiler Not Operating
5-Jun-17	18-Jun-17	18-Aug-17	No Data	No Data	No Data	Boiler Not Operating
19-Jun-17	2-Jul-17	18-Aug-17	No Data	No Data	No Data	Boiler Not Operating
3-Jul-17	16-Jul-17	18-Aug-17	0.03	17.00	6.10	
17-Jul-17	30-Jul-17	18-Aug-17	0.25	17.00	5.22	
31-Jul-17	13-Aug-17	18-Aug-17	1.73	17.00	4.66	
14-Aug-17	27-Aug-17	19-Sep-17	0.00	16.99	5.33	
28-Aug-17	10-Sep-17	19-Sep-17	0.03	17.00	5.79	
11-Sep-17	24-Sep-17	20-Sep-17	0.00	20.08	6.20	
25-Sep-17	8-Oct-17	8-Nov-17	0.00	20.41	9.69	
9-Oct-17	22-Oct-17	15-Dec-17	2.06	20.32	17.36	
23-Oct-17	5-Nov-17	15-Dec-17	0.00	20.21	9.34	
6-Nov-17	19-Nov-17	15-Dec-17	3.23	20.27	15.69	
20-Nov-17	3-Dec-17	15-Dec-17	0.00	17.38	4.36	
4-Dec-17	17-Dec-17	16-Dec-17	0.01	1.20	1.69	Boiler Stopped operating 05/12/2017
18-Dec-17	31-Dec-17	15-Jan-18	No Data	No Data	No Data	Boiler Not Operating

**Sampling Point:** Monitoring Point 8 - Cogeneration Cooling Water Discharge  
 Licence: Cape Byron Management Pty Ltd  
 Location: Broadwater Cogeneration Power Plant  
 EPL No: 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored: Temperature & Volume  
 Monitoring Frequency: Continuous online  
 Limits: See Table  
 Comments: No result may exceed the maximum limit.



MONITORING PERIOD			Temperature (°C)			Volume (kL/day)			Notes
			Limit/s	Maximum	41	Limit/s	Maximum	155520	
Date Start	Date Finish	Date Published	Min Temp	Mean Temp	Max Temp	Minimum Daily Discharge	Mean Daily Discharge	Maximum Daily Discharge	
									Plant Shutdown
2-Jun-14	15-Jun-14	12-Aug-14	19	30	37	67163	117322	137184	
14-Jul-14	27-Jul-14	12-Aug-14	18	27	34	68592	80102	133373	
28-Jul-14	10-Aug-14	22-Aug-14	16	25	36	68592	89027	137184	
11-Aug-14	24-Aug-14	15-Sep-14	17	26	38	43680	100248	137184	
25-Aug-14	7-Sep-14	15-Sep-14	19	34	39	136088	137085	137184	
8-Sep-14	21-Sep-14	8-Oct-14	18	32	38	136708	137150	137184	
22-Sep-14	5-Oct-14	4-Nov-14	21	30	37	46204	118764	137184	
6-Oct-14	19-Oct-14	4-Nov-14	23	34	38	127276	136470	137184	
20-Oct-14	2-Nov-14	24-Nov-14	24	35	41	129372	136142	137184	
3-Nov-14	16-Nov-14	24-Nov-14	25	34	41	117178	135714	137184	
17-Nov-14	30-Nov-14	19-Dec-14	25	36	40	21530	119754	137184	
1-Dec-14	14-Dec-14	19-Dec-14	27	35	41	117702	135786	137184	
									Boiler Shutdown 19th Dec 14 - 5th Jan 15
5-Jan-15	18-Jan-15	6-Feb-15	28	39	42	27770	123543	137184	A 30 minute test on the 18th January was carried out to thermally shock the condenser top and bottom halves in the hope there would be a scouring effect when the water supply was re-introduced to assist in reducing fouling on the cooling water pipeline
19-Jan-15	1-Feb-15	6-Feb-15	27	39	41	37106	121952	137184	Plant shutdown 29th January to remove fouling (mussle growth) from inside the intake pipeline that was affecting the plant cooling system performance
2-Feb-15	15-Feb-15	9-Mar-15	27	37	40	132040	136684	137184	
16-Feb-15	1-Mar-15	9-Mar-15	23	36	40	54111	127872	137184	
2-Mar-15	15-Mar-15	8-Apr-15	27	37	41	97220	130903	137184	
16-Mar-15	29-Mar-15	7-May-15	26	39	43	55064	76292	137184	On 20/3/15 exceeded 41°C for 7 minutes or 0.03% of time over reporting period before plant load was reduced to reduce heat load discharged.
30-Mar-15	12-Apr-15	7-May-15	23	34	38	46585	114121	137184	
13-Apr-15	26-Apr-15	7-May-15	17	32	35	74165	122469	137184	
27-Apr-15	10-May-15	9-Jun-15	21	32	34	27484	105773	137184	
11-May-15	24-May-15								Boiler Shutdown 1/5/15 to 29/5/15
25-May-15	7-Jun-15	7-Jul-15	18	28	35	31105	83154	137184	
8-Jun-15	21-Jun-15	7-Jul-15	18	26	31	68592	69409	79976	
22-Jun-15	5-Jul-15	10-Aug-15	17	23	31	68592	68595	68640	
6-Jul-15	19-Jul-15	10-Aug-15	17	22	29	68544	68657	69497	
20-Jul-15	2-Aug-15	10-Aug-15	16	24	31	68592	68633	69068	
3-Aug-15	16-Aug-15	8-Sep-15	18	26	34	68592	68810	71641	
17-Aug-15	30-Aug-15	8-Sep-15	20	28	36	68592	80752	137184	
31-Aug-15	13-Sep-15	12-Oct-15	21	31	37	127657	136493	137184	
14-Sep-15	27-Sep-15	12-Oct-15	20	32	37	135946	137096	137184	
28-Sep-15	11-Oct-15	15-Dec-15	0	34	40	131944	136789	137184	

**Sampling Point:** Monitoring Point 8 - Cogeneration Cooling Water Discharge  
**Licence:** Cape Byron Management Pty Ltd  
**Location:** Broadwater Cogeneration Power Plant  
**EPL No:** 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
**Parameters Monitored:** Temperature & Volume  
**Monitoring Frequency:** Continuous online  
**Limits:** See Table  
**Comments:** No result may exceed the maximum limit.



MONITORING PERIOD			Temperature (°C)			Volume (kL/day)			Notes
			Limit/s	Maximum	41	Limit/s	Maximum	155520	
Date Start	Date Finish	Date Published	Min Temp	Mean Temp	Max Temp	Minimum Daily Discharge	Mean Daily Discharge	Maximum Daily Discharge	
12-Oct-15	25-Oct-15	15-Dec-15	24	35	41	96458	134129	137184	
26-Oct-15	8-Nov-15	15-Dec-15	24	34	39	136755	137153	137184	
9-Nov-15	22-Nov-15	15-Dec-15	25	34	40	131182	136755	137184	
23-Nov-15	6-Dec-15	15-Dec-15	28	36	41	136517	137136	137184	
7-Dec-15	20-Dec-15	20-Jan-16	27	35	41	68592	128749	137184	
21-Dec-15	3-Jan-16	20-Jan-16	No Data	No Data	No Data	No Data	No Data	No Data	Shutdown Period
4-Jan-16	17-Jan-16	25-Feb-16	29	38	40	68592	114643	137184	
18-Jan-16	31-Jan-16	25-Feb-16	28	37	40	3191	109084	137184	
1-Feb-16	14-Feb-16	25-Feb-16	16	37	41	112129	135388	137184	
15-Feb-16	28-Feb-16	31-Mar-16	34	37	41	137184	137184	137184	
29-Feb-16	13-Mar-16	31-Mar-16	34	38	41	93695	130757	137184	
14-Mar-16	27-Mar-16	29-Apr-16	25	35	39	131563	136783	137184	
28-Mar-16	10-Apr-16	29-Apr-16	26	35	38	19815	105669	137184	
11-Apr-16	24-Apr-16	29-Apr-16	No Data	No Data	No Data	No Data	No Data	No Data	Shutdown Period
25-Apr-16	8-May-16	10-Jun-16	22	34	39	68592	112241	137184	
9-May-16	22-May-16	10-Jun-16	21	31	38	68592	115780	137184	
23-May-16	5-Jun-16	25-Jul-16	20	28	35	113987	134194	137184	
6-Jun-16	19-Jun-16	25-Jul-16	17	24	28	18958	122948	137184	
20-Jun-16	3-Jun-16	25-Jul-16	16	23	33	68592	77100	130515	
4-Jul-16	17-Jul-16	19-Aug-16	16	22	32	68497	81307	123180	
18-Jul-16	31-Jul-16	19-Aug-16	19	27	34	71498	123418	137184	
1-Aug-16	14-Aug-16	19-Aug-16	17	25	34	74213	124085	137184	
15-Aug-16	28-Aug-16	23-Sep-16	16	18	20	125276	135701	137184	
29-Aug-16	11-Sep-16	23-Sep-16	21	28	33	68592	100663	137184	
12-Sep-16	25-Sep-16	14-Oct-16	21	30	36	120703	133108	137184	
26-Sep-16	9-Oct-16	14-Oct-16	22	30	39	108652	133295	137184	
10-Oct-16	23-Oct-16	14-Nov-16	24	31	40	133373	136619	137184	
24-Oct-16	6-Nov-16	14-Nov-16	25	33	41	132135	136242	137184	
7-Nov-16	20-Nov-16	13-Dec-16	26	32	36	132373	136534	137184	probe had to be ordered and was replaced on 21/11/16.
21-Nov-16	4-Dec-16	13-Dec-16	27	36	41	132040	136789	137184	
5-Dec-16	18-Dec-16	23-Jan-17	27	37	41	14623	101501	137184	
19-Dec-16	1-Jan-17	23-Jan-17	33	38	40	137136	137181	137184	
2-Jan-17	15-Jan-17	23-Jan-17	24	39	41	57493	126337	137184	
16-Jan-17	29-Jan-17	10-Feb-17	28	39	41	39726	125717	137184	Temperature of between 41°C and 41.2°C occurred for 9 minutes on 29/01/2017, the river temperature at this time was 29.7°C.
30-Jan-17	12-Feb-17	10-Mar-17	29	40	42	135374	137055	137184	
13-Feb-17	26-Feb-17	10-Mar-17	28	39	41	103460	134625	137184	
27-Feb-17	12-Mar-17	13-Apr-17	25	36	39	112034	135204	137184	
13-Mar-17	26-Mar-17	13-Apr-17	24	34	40	18537	111966	137184	Shut 19/03/17 - 11/04/17
27-Mar-17	9-Apr-17	13-Apr-17	n/a	n/a	n/a	n/a	n/a	n/a	Shut 19/03/17 - 11/04/17
10-Apr-17	23-Apr-17	15-May-17	22	30	38	68592	125674	137184	

**Sampling Point:** Monitoring Point 8 - Cogeneration Cooling Water Discharge  
**Licencee:** Cape Byron Management Pty Ltd  
**Location:** Broadwater Cogeneration Power Plant  
**EPL No:** 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
**Parameters Monitored:** Temperature & Volume  
**Monitoring Frequency:** Continuous online  
**Limits:** See Table  
**Comments:** No result may exceed the maximum limit.



MONITORING PERIOD			Temperature (°C)			Volume (kL/day)			Notes
			Limit/s	Maximum	41	Limit/s	Maximum	155520	
Date Start	Date Finish	Date Published	Min Temp	Mean Temp	Max Temp	Minimum Daily Discharge	Mean Daily Discharge	Maximum Daily Discharge	
24-Apr-17	7-May-17	15-May-17	21	32	36	68592	132006	137184	
8-May-17	21-May-17	19-Jun-17	20	30	37	123799	134319	137184	
22-May-17	4-Jun-17	19-Jun-17	19	30	38	42394	118733	137184	
5-Jun-17	18-Jun-17	15-Aug-17	24	29	36	68592	105926	137184	
19-Jun-17	2-Jul-17	15-Aug-17	17	23	30	68952	123332	137184	
3-Jul-17	16-Jul-17	15-Aug-17	16	25	28	135945	137075	137184	
17-Jul-17	30-Jul-17	15-Aug-17	17	25	34	42394	118733	137184	
31-Jul-17	13-Aug-17	19-Sep-17	22	27	34	135660	136847	137184	
14-Aug-17	27-Aug-17	19-Sep-17	18	28	41	81167	129651	137184	
28-Aug-17	10-Sep-17	19-Sep-17	0	28	33	136231	137058	137184	
11-Sep-17	24-Sep-17	13-Oct-17	19	30	37	123037	135990	137184	
25-Sep-17	8-Oct-17	16-Nov-17	23	32	38	134707	136720	137184	
9-Oct-17	22-Oct-17	16-Nov-17	21	32	40	136231	137105	137184	
23-Oct-17	5-Nov-17	16-Nov-17	21	32	39	131849	136204	137184	
6-Nov-17	19-Nov-17	15-Dec-17	24	33	39	135898	136894	137184	
20-Nov-17	3-Dec-17	15-Dec-17	26	33	40	135136	137013	137184	
4-Dec-17	17-Dec-17	16-Jan-18	26	37	40	40203	120699	137184	
18-Dec-17	31-Dec-17	16-Jan-18	28	38	37	68497	126467	137184	



**Sampling Point:** Monitoring Point 9 - Cogeneration Cooling Water Inlet  
 Licencee: Cape Byron Management Pty Ltd  
 Location: Broadwater Cogeneration Power Plant  
 EPL No: 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored: Temperature  
 Monitoring Frequency: Continuous online (by calculation)  
 Limits: Not Applicable - background data only



MONITORING PERIOD			Temperature (°C)			Volume (kL/day)			Notes
Date Start	Date Finish	Date Published	Minimum Background Temperature	Mean Background Temperature	Maximum Background Temperature	Minimum Daily Intake	Mean Daily Intake	Maximum Daily Intake	
2-Jun-14	15-Jun-14	12-Aug-14	18.3	19.9	23.7	67163	117322	137184	
14-Jul-14	27-Jul-14	12-Aug-14	14.2	15.7	17.8	68592	80102	133373	
28-Jul-14	10-Aug-14	22-Aug-14	15.8	16.9	18.2	68592	89027	137184	
11-Aug-14	24-Aug-14	15-Sep-14	12.7	17.6	29.2	43680	100248	137184	
25-Aug-14	7-Sep-14	15-Sep-14	14.6	17.0	19.1	136088	137085	137184	
8-Sep-14	21-Sep-14	08-Oct-14	17.5	20.0	22.3	136708	137150	137184	
22-Sep-14	5-Oct-14	04-Nov-14	20.6	22.1	26.0	46204	118764	137184	
6-Oct-14	19-Oct-14	04-Nov-14	22.8	24.1	35.9	127276	136470	137184	
20-Oct-14	2-Nov-14	24-Nov-14	23.4	25.3	27.7	129372	136142	137184	
3-Nov-14	16-Nov-14	24-Nov-14	24.6	25.8	28.2	117178	135714	137184	
17-Nov-14	30-Nov-14	19-Dec-14	21.2	28.2	43.8	21530	119754	137184	
1-Dec-14	14-Dec-14	19-Dec-14	23.4	27.3	29.0	117702	135786	137184	
5-Jan-15	18-Jan-15	06-Feb-15	27.2	28.6	30.7	27770	123543	137184	
19-Jan-15	1-Feb-15	06-Feb-15	25.1	28.5	30.4	37106	121952	137184	
2-Feb-15	15-Feb-15	09-Mar-15	24.9	27.2	29.1	132040	136684	137184	
16-Feb-15	1-Mar-15	09-Mar-15	22.1	26.0	28.5	54111	127872	137184	
2-Mar-15	15-Mar-15	08-Apr-15	24.8	27.5	33.5	97220	130903	137184	
16-Mar-15	29-Mar-15	07-May-15	25.5	26.9	42.7	55064	76292	137184	
30-Mar-15	12-Apr-15	07-May-15	17.4	24.8	45.0	46585	114121	137184	
13-Apr-15	26-Apr-15	07-May-15	18.6	22.8	24.1	74165	122469	137184	
27-Apr-15	10-May-15	09-Jun-15	9.8	21.4	42.3	27484	105773	137184	
11-May-15	24-May-15								Boiler Shutdown 1/5/15 to 29/5/15
25-May-15	7-Jun-15	07-Jul-15	12.2	19.0	34.6	31105	83154	137184	
8-Jun-15	21-Jun-15	07-Jul-15	17.1	18.1	19.1	68592	69409	79976	
22-Jun-15	5-Jul-15	10-Aug-15	16.7	17.6	18.8	68592	68595	68640	
6-Jul-15	19-Jul-15	10-Aug-15	14.2	16.1	17.7	68544	68657	69497	
20-Jul-15	2-Aug-15	10-Aug-15	14.5	16.5	18.8	68592	68633	69068	
3-Aug-15	16-Aug-15	08-Sep-15	7.8	18.7	145.3	68592	68810	71641	water ingress into the head of the cooling water probe some readings
17-Aug-15	30-Aug-15	08-Sep-15	17.1	19.1	21.1	68592	80752	137184	
31-Aug-15	13-Sep-15	12-Oct-15	19.0	20.3	21.9	127657	136493	137184	
14-Sep-15	27-Sep-15	12-Oct-15	19.2	20.9	22.3	135946	137096	137184	
28-Sep-15	11-Oct-15	15-Dec-15	19.7	22.7	25.6	131944	136789	137184	
12-Oct-15	25-Oct-15	15-Dec-15	23.3	25.1	26.9	96458	134129	137184	
26-Oct-15	8-Nov-15	15-Dec-15	23.3	24.9	26.8	136755	137153	137184	
9-Nov-15	22-Nov-15	15-Dec-15	22.7	25.6	27.9	131182	136755	137184	
23-Nov-15	6-Dec-15	15-Dec-15	25.3	27.0	28.9	136517	137136	137184	
7-Dec-15	20-Dec-15	20-Jan-16	23.6	27.2	28.5	68592	128749	137184	

**Sampling Point: Monitoring Point 9 - Cogeneration Cooling Water Inlet**

Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored Temperature  
 Monitoring Frequency Continuous online (by calculation)  
 Limits Not Applicable - background data only



MONITORING PERIOD			Temperature (°C)			Volume (kL/day)			Notes
Date Start	Date Finish	Date Published	Minimum Background Temperature	Mean Background Temperature	Maximum Background Temperature	Minimum Daily Intake	Mean Daily Intake	Maximum Daily Intake	
21-Dec-15	3-Jan-16	20-Jan-16	No Data	No Data	No Data	No Data	No Data	No Data	Shutdown Period
4-Jan-16	17-Jan-16	25-Feb-16	24.3	26.7	29.1	68592	114643	137184	
18-Jan-16	31-Jan-16	25-Feb-16	20.7	28.4	49.4	3191	109084	137184	
1-Feb-16	14-Feb-16	25-Feb-16	26.3	27.9	30.3	112129	135388	137184	
15-Feb-16	28-Feb-16	31-Mar-16	26.8	28.5	29.7	137184	137184	137184	
29-Feb-16	13-Mar-16	31-Mar-16	26.8	27.8	28.9	93695	130757	137184	
14-Mar-16	27-Mar-16	29-Apr-16	24.6	25.9	28.2	131563	136783	137184	
28-Mar-16	10-Apr-16	29-Apr-16	16.2	26.5	41.1	19815	105669	137184	
11-Apr-16	24-Apr-16	29-Apr-16	No Data	No Data	No Data	No Data	No Data	No Data	Shutdown Period
25-Apr-16	8-May-16	10-Jun-16	22.1	23.2	24.4	68592	112241	137184	
9-May-16	22-May-16	10-Jun-16	19.9	22.2	28.0	68592	115780	137184	
23-May-16	5-Jun-16	25-Jul-16	17.4	20.0	22.3	113987	134194	137184	
6-Jun-16	19-Jun-16	25-Jul-16	11.7	17.0	26.3	18958	122948	137184	
20-Jun-16	3-Jun-16	25-Jul-16	14.7	16.0	18.1	68592	77100	130515	
4-Jul-16	17-Jul-16	19-Aug-16	14.8	16.0	17.5	68497	81307	123180	
18-Jul-16	31-Jul-16	19-Aug-16	16.5	18.1	19.6	71498	123418	137184	
1-Aug-16	14-Aug-16	19-Aug-16	15.3	16.9	29.2	74213	124085	137184	
15-Aug-16	28-Aug-16	23-Sep-16	No Data	No Data	No Data	125276	135701	137184	Error with data collection
29-Aug-16	11-Sep-16	23-Sep-16	16.1	18.5	20.9	68592	100663	137184	
12-Sep-16	25-Sep-16	14-Oct-16	19.3	21.3	22.7	120703	133108	137184	
26-Sep-16	9-Oct-16	14-Oct-16	20.8	21.9	35.8	108652	133295	137184	
10-Oct-16	23-Oct-16	14-Nov-16	21.2	22.3	24.5	133373	136619	137184	
24-Oct-16	6-Nov-16	14-Nov-16	21.9	24.5	26.4	132135	136242	137184	
7-Nov-16	20-Nov-16	13-Dec-16	24.9	26.6	28.3	132373	136534	137184	
21-Nov-16	4-Dec-16	13-Dec-16	25.9	27.3	28.6	132040	136789	137184	
5-Dec-16	18-Dec-16	23-Jan-17	26.8	27.8	29.1	14623	101501	137184	
19-Dec-16	1-Jan-17	23-Jan-17	26.3	27.7	29.7	137136	137181	137184	
2-Jan-17	15-Jan-17	23-Jan-17	25.1	28.8	30.6	57493	126337	137184	
16-Jan-17	29-Jan-17	10-Feb-17	27.3	29.2	30.8	39726	125717	137184	
30-Jan-17	12-Feb-17	10-Mar-17	29.1	30.3	31.4	135374	137055	137184	
13-Feb-17	26-Feb-17	10-Mar-17	26.8	28.8	30.8	103460	134625	137184	
27-Feb-17	12-Mar-17	13-Apr-17	24.9	26.7	28.6	112034	135204	137184	
13-Mar-17	26-Mar-17	13-Apr-17	23.5	25.1	26.5	18537	111966	137184	Shut 19/03/17 - 11/04/17
27-Mar-17	9-Apr-17	13-Apr-17	n/a	n/a	n/a	n/a	n/a	n/a	Shut 19/03/17 - 11/04/17
10-Apr-17	23-Apr-17	15-May-17	21.5	22.2	23.0	68592	125674	137184	
24-Apr-17	7-May-17	15-May-17	20.3	21.3	22.7	68592	132006	137184	
8-May-17	21-May-17	19-Jun-17	19.2	20.1	21.0	123799	134319	137184	
22-May-17	4-Jun-17	19-Jun-17	17.8	20.0	31.5	42394	118733	137184	
5-Jun-17	18-Jun-17	15-Aug-17	15.6	17.2	19.0	68592	105926	137184	

**Sampling Point:** Monitoring Point 9 - Cogeneration Cooling Water Inlet  
 Licence: Cape Byron Management Pty Ltd  
 Location: Broadwater Cogeneration Power Plant  
 EPL No: 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Monitored: Temperature  
 Monitoring Frequency: Continuous online (by calculation)  
 Limits: Not Applicable - background data only



MONITORING PERIOD			Temperature (°C)			Volume (kL/day)			Notes
Date Start	Date Finish	Date Published	Minimum Background Temperature	Mean Background Temperature	Maximum Background Temperature	Minimum Daily Intake	Mean Daily Intake	Maximum Daily Intake	
19-Jun-17	2-Jul-17	15-Aug-17	16.3	17.1	17.8	68952	123332	137184	
3-Jul-17	16-Jul-17	15-Aug-17	15.7	16.5	17.4	135945	137075	137184	
17-Jul-17	30-Jul-17	15-Aug-17	15.5	16.5	18.2	42394	118733	137184	
31-Jul-17	13-Aug-17	19th Sept	15.9	17.5	18.8	135660	136847	137184	
14-Aug-17	27-Aug-17	19th Sept	17.2	18.6	20.9	81167	129651	137184	
28-Aug-17	10-Sep-17	19th Sept	17.2	19.3	20.6	136231	137058	137184	
11-Sep-17	24-Sep-17	12-Oct-17	19.0	21.3	24.3	123037	135990	137184	
25-Sep-17	8-Oct-17	16-Nov-17	22.3	23.7	29.8	134707	136720	137184	
9-Oct-17	22-Oct-17	16-Nov-17	20.5	23.7	25.8	136232	137105	137184	
23-Oct-17	5-Nov-17	16-Nov-17	18.9	24.0	26.5	131849	136204	137184	
6-Nov-17	19-Nov-17	15-Dec-17	23.2	24.5	26.4	135898	136894	137184	
20-Nov-17	3-Dec-17	16-Dec-17	24.1	26.1	33.0	135136	137013	137184	
4-Dec-17	17-Dec-17	15-Jan-18	26.2	27.2	40.4	40203	120699	137184	
18-Dec-17	31-Dec-17	15-Jan-18	20.1	28.3	37.4	68497	126467	137184	

**Sampling Point:** Monitoring Point 10 - Stockpile Sediment Pond West  
 Licence Cape Byron Management Pty Ltd  
 Location Broadwater Power Plant Fuel Stockpile  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpocapp/>  
 Parameter/s Monitored See Table  
 Frequency & Method Monthly Grab Sample  
 Limit/s None Prescribed



PARAMETERS MEASURED								
Date Sampled	Date Received	Date Published	BOD <sub>5</sub> (mg/L)	TSS (mg/L)	pH	Nitrogen (mg/L)	Phosphorus (mg/L)	Notes
16-Jun-14	23-Jun-14	12-Aug-14	1.7	5.0	6.1	0.7	0.5	
16-Jul-14	28-Jul-14	12-Aug-14	1.0	1.0	5.8	0.8	0.4	
13-Aug-14	26-Aug-14	15-Sep-14	3.0	5.0	6.0	1.0	0.7	
16-Sep-14	22-Sep-14	8-Oct-14	4.4	12.0	5.6	1.1	1.4	
15-Oct-14	29-Oct-14	4-Nov-14	3.6	30.0	6.1	1.4	2.3	
12-Nov-14	26-Nov-14	19-Dec-14	1.1	7.0	6.9	1.3	1.4	
10-Dec-14	19-Dec-14	6-Feb-15	1.7	7.0	6.8	0.8	1.6	
7-Jan-15	20-Jan-15	6-Feb-15	2.4	7.0	6.8	0.9	1.2	
19-Feb-15	2-Mar-15	9-Mar-15	2.7	9.0	6.8	1.1	1.0	
19-Mar-15	1-Apr-15	8-Apr-15	2.0	7.0	6.6	0.9	1.4	
15-Apr-15	28-Apr-15	7-May-15	21.0	25.0	6.5	1.3	1.4	
13-May-15	26-May-15	9-Jun-15	7.8	27.0	5.6	1.1	1.5	
10-Jun-15	18-Jun-15	7-Jul-15	2.3	3.0	6.5	1.3	1.2	
8-Jul-15	21-Jul-15	10-Aug-15	1.9	11.0	6.4	0.8	1.1	
5-Aug-15	24-Aug-15	8-Sep-15	1.6	15.0	6.5	0.7	1.3	
2-Sep-15	15-Sep-15	12-Oct-15	1.8	7.0	6.5	0.7	1.0	
7-Oct-15	19-Oct-15	13-Nov-15	2.9	4.0	6.8	0.9	0.8	
3-Nov-15	13-Nov-15	13-Nov-15	2.3	6.0	6.8	0.9	0.9	
15-Dec-15	22-Dec-15	20-Jan-16	5.1	15.0	6.4	0.8	1.2	
21-Jan-16	2-Feb-16	25-Feb-16	5.1	24.0	6.3	1.0	1.3	
23-Feb-16	2-Mar-16	31-Mar-16	1.5	7.0	6.9	0.9	1.1	
22-Mar-16	3-Apr-16	29-Apr-16	5.5	20.0	6.4	0.9	1.2	
19-Apr-16	26-Apr-16	29-Apr-16	7.0	16.0	6.2	0.7	1.1	
17-May-16	25-May-16	10-Jun-16	2.2	6.0	6.4	0.9	0.9	
15-Jun-16	28-Jun-16	25-Jul-16	6.7	11.0	6.0	0.7	1.8	
15-Jul-16	25-Jul-16	19-Aug-16	3.0	9.0	6.4	0.7	1.4	
12-Aug-16	23-Aug-16	23-Sep-16	15.0	30.0	6.2	1.4	1.9	
14-Sep-16	26-Sep-16	14-Oct-16	3.9	5.0	6.1	0.9	1.3	
12-Oct-16	1-Nov-16	14-Nov-16	1.4	3.0	6.7	0.8	1.3	
10-Nov-16	22-Nov-16	13-Dec-16	2.0	6.0	6.9	0.7	1.0	
12-Dec-16	22-Dec-16	23-Jan-17	24.0	24.0	6.5	1.4	1.5	
12-Jan-17	25-Jan-17	10-Feb-17	1.4	6.0	6.1	1.1	0.7	
9-Feb-17	14-Feb-17	10-Mar-17	1.3	4.0	7.0	0.9	0.5	
9-Mar-17	17-Mar-17	13-Apr-17	8.6	31.0	6.6	1.0	1.2	
10-Apr-17	20-Apr-17	15-May-17	189.0	135.0	4.7	0.6	1.8	
10-May-17	19-May-17	19-Jun-17	80.0	82.0	5.4	1.4	3.4	
9-Jun-17	29-Jun-17	7-Aug-17	18.0	90.0	6.4	1.3	2.6	
9-Aug-17	18-Aug-17	19-Sep-17	41.0	86.0	6.4	2.0	0.6	
26-Sep-17	9-Oct-17	12-Oct-17	5.0	9.0	7.0	0.7	0.3	
18-Oct-17	30-Oct-17	16-Nov-17	12.0	40.0	6.5	1.2	0.5	
22-Nov-17	6-Dec-17	13-Feb-18	8.0	7.0	6.8	0.8	0.6	
13-Dec-17	21-Dec-18	22-Dec-17	6.1	8.0	6.8	0.8	0.5	

**Sampling Point:** Monitoring Point 11 - Stockpile Sediment Pond East  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Power Plant Fuel Stockpile  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeapp/>  
 Parameter/s Monitored See Table  
 Frequency & Method Monthly Grab Sample  
 Limit/s None Prescribed



PARAMETERS MEASURED								
Date Sampled	Date Received	Date Published	BOD <sub>5</sub> (mg/L)	TSS (mg/L)	pH	Nitrogen (mg/L)	Phosphorus (mg/L)	Notes
16-Jun-14	23-Jun-14	12-Aug-14	2.3	2.0	6.3	1.5	1.9	
16-Jul-14	28-Jul-14	12-Aug-14	3.0	3.0	6.1	1.5	1.7	
13-Aug-14	26-Aug-14	15-Sep-14	2.0	7.0	6.4	1.6	1.8	
16-Sep-14	22-Sep-14	8-Oct-14	3.4	62.0	6.1	1.6	2.1	
15-Oct-14	29-Oct-14	4-Nov-14	2.3	6.0	5.9	0.9	1.5	
12-Nov-14	26-Nov-14	19-Dec-14	2.3	34.0	7.0	2.1	2.5	
10-Dec-14	19-Dec-14	6-Feb-15	4.5	13.0	6.9	1.4	2.9	
7-Jan-15	20-Jan-15	6-Feb-15	3.2	8.0	6.8	1.5	2.4	
19-Feb-15	2-Mar-15	9-Mar-15	1.8	4.0	7.0	1.5	2.3	
19-Mar-15	1-Apr-15	8-Apr-15	4.1	1.0	6.8	1.3	2.4	
15-Apr-15	28-Apr-15	7-May-15	1.6	1.0	6.9	1.2	1.9	
13-May-15	26-May-15	9-Jun-15	5.9	85.0	6.2	1.2	1.5	
10-Jun-15	18-Jun-15	7-Jul-15	2.3	12.0	6.6	1.7	1.6	
8-Jul-15	21-Jul-15	10-Aug-15	2.8	35.0	6.5	1.1	1.5	
5-Aug-15	24-Aug-15	8-Sep-15	1.3	56.0	6.7	1.1	1.6	
2-Sep-15	15-Sep-15	12-Oct-15	2.1	29.0	6.7	1.0	1.8	
7-Oct-15	19-Oct-15	13-Nov-15	1.3	5.0	6.9	1.0	1.6	
3-Nov-15	13-Nov-15	13-Nov-15	2.2	9.0	7.1	1.4	2.0	
15-Dec-15	22-Dec-15	20-Jan-16	2.9	9.0	6.7	0.6	1.5	
21-Jan-16	2-Feb-16	25-Feb-16	3.6	7.0	6.7	0.7	1.6	
23-Feb-16	2-Mar-16	31-Mar-16	1.4	4.0	6.9	0.9	1.7	
22-Mar-16	3-Apr-16	29-Apr-16	3.5	108.0	6.5	0.9	1.6	
19-Apr-16	26-Apr-16	29-Apr-16	3.7	62.0	6.4	0.6	1.4	
17-May-16	25-May-16	10-Jun-16	4.9	4.0	6.7	0.8	1.3	
15-Jun-16	28-Jun-16	25-Jul-16	1.8	27.0	6.6	0.7	0.7	
15-Jul-16	25-Jul-16	19-Aug-16	1.4	22.0	6.8	0.7	0.7	
12-Aug-16	23-Aug-16	23-Sep-16	5.6	125.0	6.4	0.8	1.1	
14-Sep-16	26-Sep-16	14-Oct-16	3.0	7.0	6.5	1.1	1.2	
12-Oct-16	1-Nov-16	14-Nov-16	2.0	20.0	7.0	1.1	1.7	
10-Nov-16	22-Nov-16	13-Dec-16	4.9	71.0	6.7	1.2	1.5	
12-Dec-16	22-Dec-16	23-Jan-17	3.0	9.0	6.8	1.6	0.8	
12-Jan-17	25-Jan-17	10-Feb-17	1.7	7.0	6.3	1.0	1.6	
9-Feb-17	14-Feb-17	10-Mar-17	2.9	37.0	7.2	1.4	1.5	
9-Mar-17	17-Mar-17	13-Apr-17	5.0	57.0	6.6	0.8	1.8	
10-Apr-17	20-Apr-17	15-May-17	8.0	200.0	6.7	1.4	1.1	
10-May-17	19-May-17	19-Jun-17	4.0	13.0	7.0	1.4	1.3	
9-Jun-17	29-Jun-17	7-Aug-17	5.0	32.0	6.9	1.1	1.5	
9-Aug-17	18-Aug-17	19-Sep-17	6.0	32.0	7.0	2.2	0.5	
26-Sep-17	9-Oct-17	12-Oct-17	6.7	33.0	7.8	1.2	0.3	
18-Oct-17	30-Oct-18	16-Nov-17	7.3	115.0	6.7	1.1	0.6	
22-Nov-18	6-Dec-18	13-Feb-18	16.0	36.0	7.3	0.8	0.6	
13-Dec-17	13-Dec-17	22-Dec-17	7.0	33.0	7.8	1.8	0.9	

**Sampling Point: Monitoring Point 12 - Reverse Osmosis Sidestream**  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Measure See Table  
 Frequency & Method Biannual Grab Sample  
 Licence Limits Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
Aluminium	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.421	
		15-Oct-14	07-Nov-14	19-Dec-14	0.535	
		07-Jan-15	20-Jan-15	06-Feb-15	0.187	
		07-Jul-15	29-Jul-15	10-Aug-15	0.580	
		29-Sep-15	13-Oct-15	15-Dec-15	0.502	
		15-Dec-15	07-Jan-16	20-Jan-16	0.575	
		22-Mar-16	08-Apr-16	29-Apr-16	4.249	
		21-Jun-16	01-Jul-16	25-Jul-16	0.867	
		20-Sep-16	30-Sep-16	14-Oct-16	0.641	
		20-Dec-16	22-Dec-16	23-Jan-17	0.639	
		21-Mar-17	20-Apr-17	15-May-17	0.405	
		09-Jun-17	29-Jun-17	07-Aug-17	0.608	
10-Aug-17	18-Aug-17	19-Sep-17	3.745			
21-Sep-17	06-Oct-17	12-Oct-17	0.002			
Ammonia	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.040	
		15-Oct-14	07-Nov-14	19-Dec-14	0.205	
		07-Jan-15	20-Jan-15	06-Feb-15	0.285	
		07-Jul-15	29-Jul-15	10-Aug-15	1.420	
		29-Sep-15	13-Oct-15	15-Dec-15	0.080	
		15-Dec-15	07-Jan-16	20-Jan-16	0.038	
		22-Mar-16	08-Apr-16	29-Apr-16	0.047	
		21-Jun-16	01-Jul-16	25-Jul-16	0.844	
		20-Sep-16	30-Sep-16	14-Oct-16	0.027	
		20-Dec-16	22-Dec-16	23-Jan-17	0.765	
		21-Mar-17	20-Apr-17	15-May-17	0.686	
		09-Jun-17	29-Jun-17	07-Aug-17	0.675	
10-Aug-17	18-Aug-17	19-Sep-17	0.217			
21-Sep-17	06-Oct-17	12-Oct-17	0.007			
Arsenic	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.003	
		15-Oct-14	07-Nov-14	19-Dec-14	0.003	
		07-Jan-15	20-Jan-15	06-Feb-15	0.001	
		07-Jul-15	29-Jul-15	10-Aug-15	0.003	
		29-Sep-15	13-Oct-15	15-Dec-15	0.003	
		15-Dec-15	07-Jan-16	20-Jan-16	0.003	
		22-Mar-16	08-Apr-16	29-Apr-16	0.001	
		21-Jun-16	01-Jul-16	25-Jul-16	0.003	
		20-Sep-16	30-Sep-16	14-Oct-16	0.003	
		20-Dec-16	22-Dec-16	23-Jan-17	0.003	
		21-Mar-17	20-Apr-17	15-May-17	0.002	
		09-Jun-17	29-Jun-17	07-Aug-17	0.002	
10-Aug-17	18-Aug-17	19-Sep-17	0.020			
21-Sep-17	06-Oct-17	12-Oct-17	<0.001			
Barium	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.103	
		15-Oct-14	07-Nov-14	19-Dec-14	0.106	
		07-Jan-15	20-Jan-15	06-Feb-15	0.030	
		07-Jul-15	29-Jul-15	10-Aug-15	0.124	
		29-Sep-15	13-Oct-15	15-Dec-15	0.003	
		15-Dec-15	07-Jan-16	20-Jan-16	0.098	
		22-Mar-16	08-Apr-16	29-Apr-16	0.021	
		21-Jun-16	01-Jul-16	25-Jul-16	0.145	
		20-Sep-16	30-Sep-16	14-Oct-16	0.098	
		20-Dec-16	22-Dec-16	23-Jan-17	0.114	
		21-Mar-17	20-Apr-17	15-May-17	0.110	
		09-Jun-17	29-Jun-17	07-Aug-17	0.127	
10-Aug-17	18-Aug-17	19-Sep-17	0.162			
21-Sep-17	06-Oct-17	12-Oct-17	0.001			
Bicarbonate	CaCO <sub>3</sub> /kg	16-Jul-14	07-Aug-14	12-Aug-14	45.000	
		15-Oct-14	07-Nov-14	19-Dec-14	104.000	
		07-Jan-15	20-Jan-15	06-Feb-15	22.000	
		07-Jul-15	29-Jul-15	10-Aug-15	115.000	
		29-Sep-15	13-Oct-15	15-Dec-15	125.000	
		15-Dec-15	07-Jan-16	20-Jan-16	65.000	
		22-Mar-16	08-Apr-16	29-Apr-16	32.000	
		21-Jun-16	01-Jul-16	25-Jul-16	80.000	
20-Sep-16	30-Sep-16	14-Oct-16	44.000			

**Sampling Point: Monitoring Point 12 - Reverse Osmosis Sidestream**  
 Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Measure See Table  
 Frequency & Method Biannual Grab Sample  
 Licence Limits Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
		20-Dec-16	22-Dec-16	23-Jan-17	50.000	
		21-Mar-17	20-Apr-17	15-May-17	50.000	
		09-Jun-17	29-Jun-17	07-Aug-17	36.000	
		10-Aug-17	18-Aug-17	19-Sep-17	50.000	
		21-Sep-17	06-Oct-17	12-Oct-17	5.000	
Cadmium	mg/l	25-Jul-12	17-Aug-12	12-Aug-14	<0.001	
		17-Oct-12	02-Nov-12	19-Dec-14	<0.001	
		10-Jul-13	30-Jul-13	06-Feb-15	<0.001	
		07-Jul-15	29-Jul-15	10-Aug-15	<0.001	
		29-Sep-15	13-Oct-15	15-Dec-15	<0.001	
		15-Dec-15	07-Jan-16	20-Jan-16	<0.001	
		22-Mar-16	08-Apr-16	29-Apr-16	<0.001	
		21-Jun-16	01-Jul-16	25-Jul-16	<0.001	
		20-Sep-16	30-Sep-16	14-Oct-16	<0.001	
		20-Dec-16	22-Dec-16	23-Jan-17	<0.001	
		21-Mar-17	20-Apr-17	15-May-17	<0.001	
		09-Jun-17	29-Jun-17	07-Aug-17	<0.001	
		10-Aug-17	18-Aug-17	19-Sep-17	<0.001	
21-Sep-17	06-Oct-17	12-Oct-17	<0.001			
Calcium	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	30.600	
		15-Oct-14	07-Nov-14	19-Dec-14	35.400	
		07-Jan-15	20-Jan-15	06-Feb-15	6.000	
		07-Jul-15	29-Jul-15	10-Aug-15	27.800	
		29-Sep-15	13-Oct-15	15-Dec-15	58.600	
		15-Dec-15	07-Jan-16	20-Jan-16	24.500	
		22-Mar-16	08-Apr-16	29-Apr-16	6.100	
		21-Jun-16	01-Jul-16	25-Jul-16	31.400	
		20-Sep-16	30-Sep-16	14-Oct-16	26.500	
		20-Dec-16	22-Dec-16	23-Jan-17	20.900	
		21-Mar-17	20-Apr-17	15-May-17	22.000	
		09-Jun-17	29-Jun-17	07-Aug-17	20.100	
		10-Aug-17	18-Aug-17	19-Sep-17	12.000	
21-Sep-17	06-Oct-17	12-Oct-17	1.000			
Chloride	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	137.000	
		15-Oct-14	07-Nov-14	19-Dec-14	124.000	
		07-Jan-15	20-Jan-15	06-Feb-15	36.000	
		07-Jul-15	29-Jul-15	10-Aug-15	207.000	
		29-Sep-15	13-Oct-15	15-Dec-15	149.000	
		15-Dec-15	07-Jan-16	20-Jan-16	180.000	
		22-Mar-16	08-Apr-16	29-Apr-16	22.000	
		21-Jun-16	01-Jul-16	25-Jul-16	168.000	
		20-Sep-16	30-Sep-16	14-Oct-16	165.000	
		20-Dec-16	22-Dec-16	23-Jan-17	178.000	
		21-Mar-17	20-Apr-17	15-May-17	148.000	
		09-Jun-17	29-Jun-17	07-Aug-17	142.000	
		10-Aug-17	18-Aug-17	19-Sep-17	18.000	
21-Sep-17	06-Oct-17	12-Oct-17	2.700			
Chromium	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.001	
		15-Oct-14	07-Nov-14	19-Dec-14	0.001	
		07-Jan-15	20-Jan-15	06-Feb-15	<0.001	
		07-Jul-15	29-Jul-15	10-Aug-15	0.002	
		29-Sep-15	13-Oct-15	15-Dec-15	0.001	
		15-Dec-15	07-Jan-16	20-Jan-16	0.002	
		22-Mar-16	08-Apr-16	29-Apr-16	0.002	
		21-Jun-16	01-Jul-16	25-Jul-16	0.001	
		20-Sep-16	30-Sep-16	14-Oct-16	0.002	
		20-Dec-16	22-Dec-16	23-Jan-17	0.001	
		21-Mar-17	20-Apr-17	15-May-17	0.001	
		09-Jun-17	29-Jun-17	07-Aug-17	0.001	
		10-Aug-17	18-Aug-17	19-Sep-17	0.004	
21-Sep-17	06-Oct-17	12-Oct-17	<0.001			
Conductivity	dS/m	16-Jul-14	07-Aug-14	12-Aug-14	0.765	
		15-Oct-14	07-Nov-14	19-Dec-14	0.836	
		07-Jan-15	20-Jan-15	06-Feb-15	0.244	
		07-Jul-15	29-Jul-15	10-Aug-15	1.140	

**Sampling Point: Monitoring Point 12 - Reverse Osmosis Sidestream**

Licencee Cape Byron Management Pty Ltd  
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 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
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Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
		29-Sep-15	13-Oct-15	15-Dec-15	1.024	
		15-Dec-15	07-Jan-16	20-Jan-16	1.040	
		22-Mar-16	08-Apr-16	29-Apr-16	0.180	
		21-Jun-16	01-Jul-16	25-Jul-16	1.030	
		20-Sep-16	30-Sep-16	14-Oct-16	0.873	
		20-Dec-16	22-Dec-16	23-Jan-17	1.071	
		21-Mar-17	20-Apr-17	15-May-17	0.910	
		09-Jun-17	29-Jun-17	07-Aug-17	0.890	
		10-Aug-17	18-Aug-17	19-Sep-17	0.157	
		21-Sep-17	06-Oct-17	12-Oct-17	0.028	
Copper	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	<0.001	
		15-Oct-14	07-Nov-14	19-Dec-14	<0.001	
		07-Jan-15	20-Jan-15	06-Feb-15	<0.001	
		07-Jul-15	29-Jul-15	10-Aug-15	<0.001	
		29-Sep-15	13-Oct-15	15-Dec-15	<0.001	
		15-Dec-15	07-Jan-16	20-Jan-16	<0.001	
		22-Mar-16	08-Apr-16	29-Apr-16	0.002	
		21-Jun-16	01-Jul-16	25-Jul-16	<0.001	
		20-Sep-16	30-Sep-16	14-Oct-16	<0.001	
		20-Dec-16	22-Dec-16	23-Jan-17	<0.001	
		21-Mar-17	20-Apr-17	15-May-17	<0.001	
		09-Jun-17	29-Jun-17	07-Aug-17	<0.001	
		10-Aug-17	18-Aug-17	19-Sep-17	0.008	
		21-Sep-17	06-Oct-17	12-Oct-17	0.003	
Hardness (as calcium)	CaCO <sub>3</sub> /kg	16-Jul-14	07-Aug-14	12-Aug-14	144.000	
		15-Oct-14	07-Nov-14	19-Dec-14	177.000	
		07-Jan-15	20-Jan-15	06-Feb-15	39.000	
		07-Jul-15	29-Jul-15	10-Aug-15	177.000	
		29-Sep-15	13-Oct-15	15-Dec-15	214.000	
		15-Dec-15	07-Jan-16	20-Jan-16	150.000	
		22-Mar-16	08-Apr-16	29-Apr-16	34.000	
		21-Jun-16	01-Jul-16	25-Jul-16	186.000	
		20-Sep-16	30-Sep-16	14-Oct-16	129.000	
		20-Dec-16	22-Dec-16	23-Jan-17	142.000	
		21-Mar-17	20-Apr-17	15-May-17	149.000	
		09-Jun-17	29-Jun-17	07-Aug-17	130.000	
		10-Aug-17	18-Aug-17	19-Sep-17	45.000	
		21-Sep-17	06-Oct-17	12-Oct-17	3.000	
Iron	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	5.457	
		15-Oct-14	07-Nov-14	19-Dec-14	12.400	
		07-Jan-15	20-Jan-15	06-Feb-15	8.323	
		07-Jul-15	29-Jul-15	10-Aug-15	13.499	
		29-Sep-15	13-Oct-15	15-Dec-15	7.449	
		15-Dec-15	07-Jan-16	20-Jan-16	13.000	
		22-Mar-16	08-Apr-16	29-Apr-16	3.162	
		21-Jun-16	01-Jul-16	25-Jul-16	10.500	
		20-Sep-16	30-Sep-16	14-Oct-16	9.061	
		20-Dec-16	22-Dec-16	23-Jan-17	7.327	
		21-Mar-17	20-Apr-17	15-May-17	6.458	
		09-Jun-17	29-Jun-17	07-Aug-17	6.329	
		10-Aug-17	18-Aug-17	19-Sep-17	79.300	
		21-Sep-17	06-Oct-17	12-Oct-17	0.023	
Lead	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	<0.001	
		15-Oct-14	07-Nov-14	19-Dec-14	<0.001	
		07-Jan-15	20-Jan-15	06-Feb-15	<0.001	
		07-Jul-15	29-Jul-15	10-Aug-15	<0.001	
		29-Sep-15	13-Oct-15	15-Dec-15	<0.001	
		15-Dec-15	07-Jan-16	20-Jan-16	<0.001	
		22-Mar-16	08-Apr-16	29-Apr-16	<0.001	
		21-Jun-16	01-Jul-16	25-Jul-16	<0.001	
		20-Sep-16	30-Sep-16	14-Oct-16	<0.001	
		20-Dec-16	22-Dec-16	23-Jan-17	<0.001	
		21-Mar-17	20-Apr-17	15-May-17	<0.001	
		09-Jun-17	29-Jun-17	07-Aug-17	<0.001	



**Sampling Point: Monitoring Point 12 - Reverse Osmosis Sidestream**  
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		10-Aug-17	18-Aug-17	19-Sep-17	<0.001	
		21-Sep-17	06-Oct-17	12-Oct-17	<0.001	
Magnesium	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	16.500	
		15-Oct-14	07-Nov-14	19-Dec-14	21.500	
		07-Jan-15	20-Jan-15	06-Feb-15	5.800	
		07-Jul-15	29-Jul-15	10-Aug-15	26.200	
		29-Sep-15	13-Oct-15	15-Dec-15	16.500	
		15-Dec-15	07-Jan-16	20-Jan-16	21.500	
		22-Mar-16	08-Apr-16	29-Apr-16	4.500	
		21-Jun-16	01-Jul-16	25-Jul-16	26.100	
		20-Sep-16	30-Sep-16	14-Oct-16	15.300	
		20-Dec-16	22-Dec-16	23-Jan-17	21.800	
		21-Mar-17	20-Apr-17	15-May-17	23.000	
		09-Jun-17	29-Jun-17	07-Aug-17	19.400	
		10-Aug-17	18-Aug-17	19-Sep-17	3.000	
21-Sep-17	06-Oct-17	12-Oct-17	0.200			
Manganese	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.123	
		15-Oct-14	07-Nov-14	19-Dec-14	0.098	
		07-Jan-15	20-Jan-15	06-Feb-15	0.113	
		07-Jul-15	29-Jul-15	10-Aug-15	0.137	
		29-Sep-15	13-Oct-15	15-Dec-15	0.082	
		15-Dec-15	07-Jan-16	20-Jan-16	0.119	
		22-Mar-16	08-Apr-16	29-Apr-16	0.048	
		21-Jun-16	01-Jul-16	25-Jul-16	0.134	
		20-Sep-16	30-Sep-16	14-Oct-16	0.114	
		20-Dec-16	22-Dec-16	23-Jan-17	0.131	
		21-Mar-17	20-Apr-17	15-May-17	0.127	
		09-Jun-17	29-Jun-17	07-Aug-17	0.090	
		10-Aug-17	18-Aug-17	19-Sep-17	0.188	
21-Sep-17	06-Oct-17	12-Oct-17	<0.001			
Mercury	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	<0.0005	
		15-Oct-14	07-Nov-14	19-Dec-14	<0.0005	
		07-Jan-15	20-Jan-15	06-Feb-15	<0.0005	
		07-Jul-15	29-Jul-15	10-Aug-15	<0.0005	
		29-Sep-15	13-Oct-15	15-Dec-15	<0.0005	
		15-Dec-15	07-Jan-16	20-Jan-16	<0.0005	
		22-Mar-16	08-Apr-16	29-Apr-16	<0.005	
		21-Jun-16	01-Jul-16	25-Jul-16	<0.0005	
		20-Sep-16	30-Sep-16	14-Oct-16	<0.0005	
		20-Dec-16	22-Dec-16	23-Jan-17	<0.0005	
		21-Mar-17	20-Apr-17	15-May-17	<0.0005	
		09-Jun-17	29-Jun-17	07-Aug-17	<0.001	
		10-Aug-17	18-Aug-17	19-Sep-17	<0.0005	
21-Sep-17	06-Oct-17	12-Oct-17	<0.0005			
Nickel	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.001	
		15-Oct-14	07-Nov-14	19-Dec-14	0.001	
		07-Jan-15	20-Jan-15	06-Feb-15	<0.001	
		07-Jul-15	29-Jul-15	10-Aug-15	0.001	
		29-Sep-15	13-Oct-15	15-Dec-15	0.001	
		15-Dec-15	07-Jan-16	20-Jan-16	0.001	
		22-Mar-16	08-Apr-16	29-Apr-16	0.003	
		21-Jun-16	01-Jul-16	25-Jul-16	0.002	
		20-Sep-16	30-Sep-16	14-Oct-16	0.001	
		20-Dec-16	22-Dec-16	23-Jan-17	0.002	
		21-Mar-17	20-Apr-17	15-May-17	0.001	
		09-Jun-17	29-Jun-17	07-Aug-17	0.001	
		10-Aug-17	18-Aug-17	19-Sep-17	0.001	
21-Sep-17	06-Oct-17	12-Oct-17	0.001			
Nitrate	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.930	
		15-Oct-14	07-Nov-14	19-Dec-14	0.721	
		07-Jan-15	20-Jan-15	06-Feb-15	0.008	
		07-Jul-15	29-Jul-15	10-Aug-15	0.077	
		29-Sep-15	13-Oct-15	15-Dec-15	0.020	
		15-Dec-15	07-Jan-16	20-Jan-16	<0.005	
		22-Mar-16	08-Apr-16	29-Apr-16	0.170	

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Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
		21-Jun-16	01-Jul-16	25-Jul-16	0.005	
		20-Sep-16	30-Sep-16	14-Oct-16	<0.005	
		20-Dec-16	22-Dec-16	23-Jan-17	0.024	
		21-Mar-17	20-Apr-17	15-May-17	0.088	
		09-Jun-17	29-Jun-17	07-Aug-17	0.066	
		10-Aug-17	18-Aug-17	19-Sep-17	0.059	
		21-Sep-17	06-Oct-17	12-Oct-17	0.030	
Nitrite	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.013	
		15-Oct-14	07-Nov-14	19-Dec-14	0.866	
		07-Jan-15	20-Jan-15	06-Feb-15	0.011	
		07-Jul-15	29-Jul-15	10-Aug-15	0.026	
		29-Sep-15	13-Oct-15	15-Dec-15	0.009	
		15-Dec-15	07-Jan-16	20-Jan-16	0.011	
		22-Mar-16	08-Apr-16	29-Apr-16	0.013	
		21-Jun-16	01-Jul-16	25-Jul-16	0.013	
		20-Sep-16	30-Sep-16	14-Oct-16	0.017	
		20-Dec-16	22-Dec-16	23-Jan-17	0.011	
		21-Mar-17	20-Apr-17	15-May-17	0.023	
		09-Jun-17	29-Jun-17	07-Aug-17	0.019	
Orthophosphate	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.041	
		15-Oct-14	07-Nov-14	19-Dec-14	0.062	
		07-Jan-15	20-Jan-15	06-Feb-15	0.011	
		07-Jul-15	29-Jul-15	10-Aug-15	0.030	
		29-Sep-15	13-Oct-15	15-Dec-15	0.030	
		15-Dec-15	07-Jan-16	20-Jan-16	0.010	
		22-Mar-16	08-Apr-16	29-Apr-16	0.090	
		21-Jun-16	01-Jul-16	25-Jul-16	0.040	
		20-Sep-16	30-Sep-16	14-Oct-16	0.093	
		20-Dec-16	22-Dec-16	23-Jan-17	0.044	
		21-Mar-17	20-Apr-17	15-May-17	0.030	
		09-Jun-17	29-Jun-17	07-Aug-17	0.030	
Potassium	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	6.700	
		15-Oct-14	07-Nov-14	19-Dec-14	15.100	
		07-Jan-15	20-Jan-15	06-Feb-15	4.000	
		07-Jul-15	29-Jul-15	10-Aug-15	17.500	
		29-Sep-15	13-Oct-15	15-Dec-15	13.700	
		15-Dec-15	07-Jan-16	20-Jan-16	15.600	
		22-Mar-16	08-Apr-16	29-Apr-16	2.800	
		21-Jun-16	01-Jul-16	25-Jul-16	19.500	
		20-Sep-16	30-Sep-16	14-Oct-16	7.500	
		20-Dec-16	22-Dec-16	23-Jan-17	13.200	
		21-Mar-17	20-Apr-17	15-May-17	15.000	
		09-Jun-17	29-Jun-17	07-Aug-17	13.100	
Selenium	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	<0.010	
		15-Oct-14	07-Nov-14	19-Dec-14	<0.002	
		07-Jan-15	20-Jan-15	06-Feb-15	<0.001	
		07-Jul-15	29-Jul-15	10-Aug-15	0.001	
		29-Sep-15	13-Oct-15	15-Dec-15	<0.001	
		15-Dec-15	07-Jan-16	20-Jan-16	<0.001	
		22-Mar-16	08-Apr-16	29-Apr-16	<0.001	
		21-Jun-16	01-Jul-16	25-Jul-16	0.003	
		20-Sep-16	30-Sep-16	14-Oct-16	<0.002	
		20-Dec-16	22-Dec-16	23-Jan-17	0.001	
		21-Mar-17	20-Apr-17	15-May-17	<0.001	
		09-Jun-17	29-Jun-17	07-Aug-17	<0.005	
Silica (total)	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	17.010	
		15-Oct-14	07-Nov-14	19-Dec-14	23.000	

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Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
		07-Jan-15	20-Jan-15	06-Feb-15	4.482	
		07-Jul-15	29-Jul-15	10-Aug-15	25.063	
		29-Sep-15	13-Oct-15	15-Dec-15	19.400	
		15-Dec-15	07-Jan-16	20-Jan-16	21.800	
		22-Mar-16	08-Apr-16	29-Apr-16	15.000	
		21-Jun-16	01-Jul-16	25-Jul-16	19.400	
		20-Sep-16	30-Sep-16	14-Oct-16	16.500	
		20-Dec-16	22-Dec-16	23-Jan-17	16.360	
		21-Mar-17	20-Apr-17	15-May-17	19.795	
		09-Jun-17	29-Jun-17	07-Aug-17	18.700	
		10-Aug-17	18-Aug-17	19-Sep-17	5.820	
21-Sep-17	06-Oct-17	12-Oct-17	0.840			
Silver	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	<0.001	
		15-Oct-14	07-Nov-14	19-Dec-14	<0.001	
		07-Jan-15	20-Jan-15	06-Feb-15	<0.001	
		07-Jul-15	29-Jul-15	10-Aug-15	<0.001	
		29-Sep-15	13-Oct-15	15-Dec-15	<0.001	
		15-Dec-15	07-Jan-16	20-Jan-16	<0.001	
		22-Mar-16	08-Apr-16	29-Apr-16	<0.001	
		21-Jun-16	01-Jul-16	25-Jul-16	<0.001	
		20-Sep-16	30-Sep-16	14-Oct-16	<0.001	
		20-Dec-16	22-Dec-16	23-Jan-17	<0.001	
		21-Mar-17	20-Apr-17	15-May-17	<0.001	
09-Jun-17	29-Jun-17	07-Aug-17	<0.001			
10-Aug-17	18-Aug-17	19-Sep-17	<0.001			
21-Sep-17	06-Oct-17	12-Oct-17	<0.001			
Sodium	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	98.000	
		15-Oct-14	07-Nov-14	19-Dec-14	99.000	
		07-Jan-15	20-Jan-15	06-Feb-15	25.700	
		07-Jul-15	29-Jul-15	10-Aug-15	144.000	
		29-Sep-15	13-Oct-15	15-Dec-15	115.000	
		15-Dec-15	07-Jan-16	20-Jan-16	140.000	
		22-Mar-16	08-Apr-16	29-Apr-16	19.900	
		21-Jun-16	01-Jul-16	25-Jul-16	120.000	
		20-Sep-16	30-Sep-16	14-Oct-16	122.000	
		20-Dec-16	22-Dec-16	23-Jan-17	124.000	
		21-Mar-17	20-Apr-17	15-May-17	113.000	
09-Jun-17	29-Jun-17	07-Aug-17	108.000			
10-Aug-17	18-Aug-17	19-Sep-17	107.000			
21-Sep-17	06-Oct-17	12-Oct-17	3.100			
Sodium Adsorption Ratio	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	3.500	
		15-Oct-14	07-Nov-14	19-Dec-14	3.200	
		07-Jan-15	20-Jan-15	06-Feb-15	1.800	
		07-Jul-15	29-Jul-15	10-Aug-15	4.700	
		29-Sep-15	13-Oct-15	15-Dec-15	3.400	
		15-Dec-15	07-Jan-16	20-Jan-16	5.000	
		22-Mar-16	08-Apr-16	29-Apr-16	1.500	
		21-Jun-16	01-Jul-16	25-Jul-16	3.800	
		20-Sep-16	30-Sep-16	14-Oct-16	4.700	
		20-Dec-16	22-Dec-16	23-Jan-17	4.500	
		21-Mar-17	20-Apr-17	15-May-17	4.000	
09-Jun-17	29-Jun-17	07-Aug-17	4.100			
10-Aug-17	18-Aug-17	19-Sep-17	1.200			
21-Sep-17	06-Oct-17	12-Oct-17	0.700			
Sulfate	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	97.000	
		15-Oct-14	07-Nov-14	19-Dec-14	90.000	
		07-Jan-15	20-Jan-15	06-Feb-15	20.000	
		07-Jul-15	29-Jul-15	10-Aug-15	94.000	
		29-Sep-15	13-Oct-15	15-Dec-15	98.000	
		15-Dec-15	07-Jan-16	20-Jan-16	132.000	
		22-Mar-16	08-Apr-16	29-Apr-16	4.000	
		21-Jun-16	01-Jul-16	25-Jul-16	132.000	
		20-Sep-16	30-Sep-16	14-Oct-16	112.000	
		20-Dec-16	22-Dec-16	23-Jan-17	117.000	

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 Licence Limits Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
		21-Mar-17	20-Apr-17	15-May-17	114.000	
		09-Jun-17	29-Jun-17	07-Aug-17	106.000	
		10-Aug-17	18-Aug-17	19-Sep-17	11.000	
		21-Sep-17	06-Oct-17	12-Oct-17	1.400	
<b>Total Dissolved Salts</b>	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	520.000	
		15-Oct-14	07-Nov-14	19-Dec-14	568.000	
		07-Jan-15	20-Jan-15	06-Feb-15	166.000	
		07-Jul-15	29-Jul-15	10-Aug-15	776.000	
		29-Sep-15	13-Oct-15	15-Dec-15	696.000	
		15-Dec-15	07-Jan-16	20-Jan-16	710.000	
		22-Mar-16	08-Apr-16	29-Apr-16	122.000	
		21-Jun-16	01-Jul-16	25-Jul-16	700.000	
		20-Sep-16	30-Sep-16	14-Oct-16	594.000	
		20-Dec-16	22-Dec-16	23-Jan-17	728.000	
		21-Mar-17	20-Apr-17	15-May-17	615.000	
		09-Jun-17	29-Jun-17	07-Aug-17	607.000	
		10-Aug-17	18-Aug-17	19-Sep-17	102.000	
21-Sep-17	06-Oct-17	12-Oct-17	19.000			
<b>Total Organic Carbon</b>	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	17.700	
		15-Oct-14	07-Nov-14	19-Dec-14	26.100	
		07-Jan-15	20-Jan-15	06-Feb-15	6.000	
		07-Jul-15	29-Jul-15	10-Aug-15	33.000	
		29-Sep-15	13-Oct-15	15-Dec-15	17.100	
		15-Dec-15	07-Jan-16	20-Jan-16	29.600	
		22-Mar-16	08-Apr-16	29-Apr-16	9.800	
		21-Jun-16	01-Jul-16	25-Jul-16	24.650	
		20-Sep-16	30-Sep-16	14-Oct-16	19.000	
		20-Dec-16	22-Dec-16	23-Jan-17	20.000	
		21-Mar-17	20-Apr-17	15-May-17	22.000	
		09-Jun-17	29-Jun-17	07-Aug-17	26.000	
		10-Aug-17	18-Aug-17	19-Sep-17	37.000	
21-Sep-17	06-Oct-17	12-Oct-17	<1			
<b>Total Suspended Solids</b>	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	3.000	
		15-Oct-14	07-Nov-14	19-Dec-14	<1	
		07-Jan-15	20-Jan-15	06-Feb-15	3.000	
		07-Jul-15	29-Jul-15	10-Aug-15	<1	
		29-Sep-15	13-Oct-15	15-Dec-15	<1	
		15-Dec-15	07-Jan-16	20-Jan-16	<1	
		22-Mar-16	08-Apr-16	29-Apr-16	53.000	
		21-Jun-16	01-Jul-16	25-Jul-16	2.000	
		20-Sep-16	30-Sep-16	14-Oct-16	1.000	
		20-Dec-16	22-Dec-16	23-Jan-17	2.000	
		21-Mar-17	20-Apr-17	15-May-17	11.000	
		09-Jun-17	29-Jun-17	07-Aug-17	8.000	
		10-Aug-17	18-Aug-17	19-Sep-17	42.000	
21-Sep-17	06-Oct-17	12-Oct-17	1.000			
<b>Zinc</b>	mg/l	16-Jul-14	07-Aug-14	12-Aug-14	0.005	
		15-Oct-14	07-Nov-14	19-Dec-14	0.002	
		07-Jan-15	20-Jan-15	06-Feb-15	0.006	
		07-Jul-15	29-Jul-15	10-Aug-15	0.009	
		29-Sep-15	13-Oct-15	15-Dec-15	0.020	
		15-Dec-15	07-Jan-16	20-Jan-16	0.007	
		22-Mar-16	08-Apr-16	29-Apr-16	0.006	
		21-Jun-16	01-Jul-16	25-Jul-16	0.067	
		20-Sep-16	30-Sep-16	14-Oct-16	0.016	
		20-Dec-16	22-Dec-16	23-Jan-17	0.010	
		21-Mar-17	20-Apr-17	15-May-17	0.005	
		09-Jun-17	29-Jun-17	07-Aug-17	0.005	
		10-Aug-17	18-Aug-17	19-Sep-17	0.010	
21-Sep-17	06-Oct-17	12-Oct-17	0.006			
<b>pH</b>		16-Jul-14	07-Aug-14	12-Aug-14	6.370	
		15-Oct-14	07-Nov-14	19-Dec-14	6.850	

**Sampling Point: Monitoring Point 12 - Reverse Osmosis Sidestream**

Licencee Cape Byron Management Pty Ltd  
 Location Broadwater Cogeneration Power Plant  
 EPL No 20425 <http://www.epa.nsw.gov.au/prpoeoapp/>  
 Parameters Measure See Table  
 Frequency & Method Biannual Grab Sample  
 Licence Limits Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
		07-Jan-15	20-Jan-15	06-Feb-15	5.910	
		07-Jul-15	29-Jul-15	10-Aug-15	7.490	
		29-Sep-15	13-Oct-15	15-Dec-15	7.320	
		15-Dec-15	07-Jan-16	20-Jan-16	6.910	
		22-Mar-16	08-Apr-16	29-Apr-16	6.990	
		21-Jun-16	01-Jul-16	25-Jul-16	6.980	
		20-Sep-16	30-Sep-16	14-Oct-16	6.750	
		20-Dec-16	22-Dec-16	23-Jan-17	6.970	
		21-Mar-17	20-Apr-17	15-May-17	6.940	
		09-Jun-17	29-Jun-17	07-Aug-17	6.840	
		10-Aug-17	18-Aug-17	19-Sep-17	7.440	
		21-Sep-17	06-Oct-17	12-Oct-17	6.63	

**Sampling Point:**  
 Licence  
 Location  
 EPL No  
 Parameter/s Monitored  
 Frequency & Method

**Rain gauge**  
 Cape Byron Management Pty Ltd  
 Broadwater Cogeneration Power Plant  
 20425  
 Rainfall  
 Continuous Auto Sampler



TIPPING GAUGE CONTINUOUS RAINFALL MONITORING					
Period From		Period To		Daily Rain	
Date	Time	Date	Time	Total (mm)	Max Intensity (mm/min)
Thursday, 21 December 2017	9:01am	Friday, 22 December 2017	9:00am	0	0
Friday, 22 December 2017	9:01am	Saturday, 23 December 2017	9:00am	45.4	1.8
Saturday, 23 December 2017	9:01am	Sunday, 24 December 2017	9:00am	0	0
Sunday, 24 December 2017	9:01am	Monday, 25 December 2017	9:00am	0	0
Monday, 25 December 2017	9:01am	Tuesday, 26 December 2017	9:00am	6.2	0.4
Tuesday, 26 December 2017	9:01am	Wednesday, 27 December 2017	9:00am	23.8	0.2
Wednesday, 27 December 2017	9:01am	Thursday, 28 December 2017	9:00am	6.4	1.2
Thursday, 28 December 2017	9:01am	Friday, 29 December 2017	9:00am	1.2	0.2
Friday, 29 December 2017	9:01am	Saturday, 30 December 2017	9:00am	0	0
Saturday, 30 December 2017	9:01am	Sunday, 31 December 2017	9:00am	0	0
Sunday, 31 December 2017	9:01am	Monday, 1 January 2018	9:00am	10	1.6