



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	AE11619
Report Number			09-Sep-14	09-Sep-15	31-Aug-16	13-Sep-17	18-Sep-18
Sampling Date			30-Oct-14	15-Oct-15	13-Oct-16	23-Oct-17	15-Oct-18
Date Received			04-Nov-14	13-Nov-15	14-Oct-16	24-Oct-17	19-Dec-18
Date Published							
Measured Parameters	Units	Concentration Limit					
dry @ STP and corrected to 7% O₂							
Average stack gas temperature	°C	Not Applicable	78.0	85.0	102.0	94.0	87.9
Average velocity at sampling plane	m/s	Not Applicable	8.9	9.7	8.4	8.6	9.2
Gas Volumetric Flowrate	m ³ /sec	Not Applicable	26.7	25.5	19.9	21.9	23.6
Dry Gas Density	kg/m ³	Not Applicable	1.2	1.4	1.4	1.4	1.4
Molecular Weight of Stack Gases	g/g mole	Not Applicable	26.2	30.2	30.5	30.4	30.4
Moisture content	%	Not Applicable	22.1	30.9	34.6	30.2	28.9
Concentration of carbon dioxide	%	Not Applicable	9.2	11.9	14.3	13.2	13.4
Total Solid Particles	mg/m ³	100	21.1	31.6	26.6	26.4	155.0
Sulphuric Acid Mist & Sulphur Trioxide as SO ₃	mg/m ³	12	11.8	21.6	8.7	3.3	16.4
Nitrogen Oxides (NOx)	mg/m ³	500	477.0	335.0	484.0	447.0	300.0

Notes

1) Boiler Shutdown Approx Dec to June each year

Sampling Point:

Licence
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										
			PEL- 8995	PEL 9494	PEL 9650	AMG10146	AMG 10240	AMG10437	AMG10473	AMG10561	AMG10561	AMG10776	AMG10891
			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
			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
			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
Measured Parameters dry @ STP and corrected to 7% O ₂	Units	Concentration Limit											
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	7.72	8.80	8.11	8.48	6.07	7.87	8.46	9.83	7.96	8.89
Dry Gas Volumetric Flowrate	m ³ /sec	Not Applicable	63.4	51.70	66.00	54.48	57.85	46.55	59.45	57.55	70.76	59.15	70.15
Dry Gas Density	kg/m ³	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	30.60	30.00	30.30	30.40	29.80	30.20	30.30	30.20	30.10	29.80
Moisture content	%	Not Applicable	23.0	28.10	20.50	28.00	28.20	20.10	20.60	28.10	24.40	22.30	18.30
Concentration of carbon dioxide	%	Not Applicable	12.3	14.90	10.20	7.90	13.70	11.70	11.40	12.60	11.30	11.00	8.94
Total Solid Particles	mg/m ³	100	25.8	7.01	110.00	31.60	22.20	95.90	54.00	11.00	27.00	13.80	18.50
Sulphuric Acid Mist & Sulphur Trioxide as SO ₃	mg/m ³	12	10.6	9.90	1.30	52.50	16.80	4.22	0.40	20.50	0.90	1.10	0.83
Nitrogen Oxides (NOx)	mg/m ³	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											
			AMG11093	AMG 11123	AMG 11349	AMG 11476	AE11619	AE11748						
			14-Sep-17	19-Dec-17	13-Feb-18	28-Jun-18	18-Sep-18	08-Jan-19						
			23-Oct-17	06-Feb-18	27-Feb-18	13-Jul-18	15-Oct-18	15-Jan-19						
			24-Oct-17	12-Feb-18	27-Apr-18	20-Jul-18	19-Dec-18	18-Jan-19						
Measured Parameters dry @ STP and corrected to 7% O ₂	Units	Concentration Limit												
Average stack gas temperature	°C	Not Applicable	68.6	62.0	63.1	66.3	71.0	64.0						
Average velocity at sampling plane	m/s	Not Applicable	7.3	7.04	6.90	14.9	15.5	11.3						
Dry Gas Volumetric Flowrate	m ³ /sec	Not Applicable	53.4	57.60	57.63	57.9	61.5	48.2						
Dry Gas Density	kg/m ³	Not Applicable	1.37	1.34	1.35	1.4	1.4	1.4						
Molecular Weight of Stack Gases	g/g mole	Not Applicable	30.7	28.20	28.70	27.4	30.7	30.2						
Moisture content	%	Not Applicable	22.6	15.20	13.50	24.3	21.6	16.7						
Concentration of carbon dioxide	%	Not Applicable	14.6	10.50	13.00	13.2	13.8	11.6						
Total Solid Particles	mg/m ³	100	23.8	16.40	51.00	12.1	95.7	19.6						
Sulphuric Acid Mist & Sulphur Trioxide as SO ₃	mg/m ³	12	2.4	5.65	11.10	11.1	10.1	0.90						
Nitrogen Oxides (NOx)	mg/m ³	500	246.0	158.0	239.0	227.0	322.0	172.0						

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 ² /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	
4-Jan-18	18-Jan-18	19-Jan-18	1.01	
6-Feb-18	15-Feb-18	16-Feb-18	0.51	Org. matter/insects
8-Mar-18	16-Mar-18	20-Mar-18	1.05	Insects
9-Apr-18	18-May-18	30-Apr-18	0.54	
8-May-18	14-Jun-18	24-May-18	0.62	
6-Jun-18	7-Jun-18	22-Jun-18	0.70	
5-Jul-18	11-Jul-18	24-Jul-18	1.79	Org.matter/yellow flakes
6-Aug-18	10-Aug-18	13-Aug-18	0.95	Org.matter
5-Sep-18	6-Sep-18	18-Sep-18	1.58	Org.matter
3-Oct-18	4-Oct-18	19-Oct-18	2.10	Mosquitoes
2-Nov-18	12-Nov-18	16-Nov-18	1.21	Org.matter
5-Dec-18	10-Dec-18	19-Dec-18	1.93	Insects

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 ³)	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
 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 ³)	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
 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 ³)	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 ³)	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	
1-Jan-18	8-Jan-18	17-Jan-18	13	
7-Jan-18	12-Feb-18	19-Feb-18	15	
13-Jan-18	12-Feb-18	19-Feb-18	30	
19-Jan-18	12-Feb-18	19-Feb-18	21	
25-Jan-18	12-Feb-18	19-Feb-18	22	
31-Jan-18	12-Feb-18	19-Feb-18	18	
6-Feb-18	12-Feb-18	28-Mar-18	18	
12-Feb-18	9-Mar-18	28-Mar-18	56	
18-Feb-18	9-Mar-18	28-Mar-18	17	
24-Feb-18	9-Mar-18	28-Mar-18	8	
2-Mar-18	9-Mar-18	28-Mar-18	20	
8-Mar-18	13-Apr-18	30-Apr-18	21	
14-Mar-18	13-Apr-18	30-Apr-18	18	
20-Mar-18	13-Apr-18	30-Apr-18	16	
26-Mar-18	13-Apr-18	30-Apr-18	16	
1-Apr-18	13-Apr-18	30-Apr-18	8	
7-Apr-18	13-Apr-18	30-Apr-18	17	
13-Apr-18	21-May-18	24-May-18	24	
19-Apr-18	21-May-18	24-May-18	57	
25-Apr-18	21-May-18	24-May-18	11	
1-May-18	21-May-18	24-May-18	13	
7-May-18	21-May-18	24-May-18	21	
13-May-18	13-Jun-18	19-Jun-18	11	
19-May-18	13-Jun-18	19-Jun-18	13	
25-May-18	13-Jun-18	19-Jun-18	11	
31-May-18	13-Jun-18	19-Jun-18	9	
6-Jun-18	9-Jul-18	13-Jul-18	5	
12-Jun-18	9-Jul-18	13-Jul-18	5	
18-Jun-18	9-Jul-18	13-Jul-18	11	
24-Jun-18	9-Jul-18	13-Jul-18	16	
30-Jun-18	9-Jul-18	13-Jul-18	11	
6-Jul-18	8-Aug-18	14-Aug-18	16	
12-Jul-18	8-Aug-18	14-Aug-18	31	
18-Jul-18	8-Aug-18	14-Aug-18	20	
24-Jul-18	8-Aug-18	14-Aug-18	28	
30-Jul-18	8-Aug-18	14-Aug-18	16	
5-Aug-18	8-Aug-18	14-Aug-18	31	
11-Aug-18	9-Sep-18	18-Sep-18	28	
17-Aug-18	9-Sep-18	18-Sep-18	94	
23-Aug-18	9-Sep-18	18-Sep-18	33	
29-Aug-18	9-Sep-18	18-Sep-18	19	
4-Sep-18	9-Sep-18	18-Sep-18	9	
10-Sep-18	5-Oct-18	19-Oct-18	12	
16-Sep-18	5-Oct-18	19-Oct-18	29	

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 ³)	Notes
22-Sep-18	5-Oct-18	19-Oct-18	10	
28-Sep-18	5-Oct-18	19-Oct-18	28	
4-Oct-18	6-Nov-18	16-Nov-18	39	
10-Oct-18	6-Nov-18	16-Nov-18	53	
16-Oct-18	6-Nov-18	16-Nov-18	19	
22-Oct-18	6-Nov-18	16-Nov-18	20	
28-Oct-18	6-Nov-18	16-Nov-18	22	
3-Nov-18	11-Dec-18	19-Dec-18	40	
9-Nov-18	11-Dec-18	19-Dec-18	34	
15-Nov-18	11-Dec-18	19-Dec-18	38	
21-Nov-18	11-Dec-18	19-Dec-18	79	
27-Nov-18	11-Dec-18	19-Dec-18	34	
3-Dec-18	11-Dec-18	19-Dec-18	48	
9-Dec-18	10-Jan-19	18-Jan-19	23	
15-Dec-18	10-Jan-19	18-Jan-19	16	
21-Dec-18	10-Jan-19	18-Jan-19	25	
27-Dec-18	10-Jan-19	18-Jan-19	10	

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 ² /month)	Notes
16-Jun-14	23-Jun-14	12-Aug-14	0.53	
16-Jul-14	24-Jul-14	12-Aug-14	2.71	
13-Aug-14	26-Aug-14	15-Sep-14	1.83	
17-Sep-14	26-Sep-14	8-Oct-14	0.33	
15-Oct-14	22-Oct-14	4-Nov-14	1.73	
12-Nov-14	20-Nov-14	24-Nov-14	0.55	
10-Dec-14	17-Dec-14	19-Dec-14	1.18	
7-Jan-15	9-Jan-15	6-Feb-15	1.31	
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	0.92	
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	4.67	
10-Jun-15	19-Jun-15	7-Jul-15	0.39	
8-Jul-15	21-Jul-15	10-Aug-15	1.15	
5-Aug-15	7-Aug-15	10-Aug-15	0.93	
2-Sep-15	15-Sep-15	12-Oct-15	1.48	
2-Oct-15	15-1015	13-Nov-15	1.23	
3-Nov-15	11-Nov-15	13-Nov-15	1.23	
1-Dec-15	15-Dec-15	20-Jan-16	3.30	
24-Dec-15	21-Jan-16	25-Feb-16	0.43	Sampling period 23 days due to mill shutdown
22-Jan-16	2-Feb-16	25-Feb-16	0.32	
23-Feb-16	2-Mar-16	31-Mar-16	0.64	
22-Mar-16	5-Apr-16	29-Apr-16	0.79	
19-Apr-16	29-Apr-16	10-Jun-16	0.40	
17-May-16	3-Jun-16	10-Jun-16	0.82	
15-Jun-16	21-Jun-16	25-Jul-16	3.90	
15-Jul-16	25-Jul-16	19-Aug-16	1.75	
12-Aug-16	22-Aug-16	23-Sep-16	1.58	
14-Sep-16	16-Sep-16	23-Sep-16	1.50	
12-Oct-16	18-Oct-16	14-Nov-16	1.48	
10-Nov-16	15-Nov-16	13-Dec-16	2.24	
12-Dec-16	14-Dec-16	23-Jan-17	3.57	
11-Jan-17	17-Jan-17	23-Jan-17	0.50	
8-Feb-17	14-Feb-17	10-Mar-17	0.66	
9-Mar-17	15-Mar-17	13-Apr-17	0.73	
10-Apr-17	13-Apr-17	15-May-17	0.16	
10-May-17	15-May-17	19-Jun-17	0.97	
9-Jun-17	9-Jun-17	7-Aug-17	0.42	
10-Jul-17	10-Jul-17	7-Aug-17	0.02	
10-Aug-17	11-Aug-17	15-Sep-17	1.06	
8-Sep-17	8-Sep-17	15-Sep-17	1.76	
11-Oct-17	11-Oct-17	24-Oct-17	1.02	Ants
10-Nov-17	13-Nov-17	12-Nov-17	0.55	
7-Dec-17	8-Dec-17	20-Dec-17	2.78	cloudy/org matter
4-Jan-18	18-Jan-18	19-Jan-18	0.67	
6-Feb-18	15-Feb-18	16-Feb-18	0.36	Org. matter
8-Mar-18	16-Mar-18	20-Mar-18	1.23	Insects/Org.Matter
9-Apr-18	18-May-18	30-Apr-18	0.93	
8-May-18	14-Jun-18	24-May-18	0.27	
6-Jun-18	7-Jun-18	22-Jun-18	0.85	
5-Jul-18	11-Jul-18	24-Jul-18	1.27	Org.matter
6-Aug-18	10-Aug-18	13-Aug-18	1.23	Org.matter
5-Sep-18	6-Sep-18	18-Sep-18	2.31	Org.matter
3-Oct-18	4-Oct-18	19-Oct-18	1.36	Org. matter
2-Nov-18	12-Nov-18	16-Nov-18	0.29	Org. matter
5-Dec-18	10-Dec-18	19-Dec-18	3.79	Cloudy, insects

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 ² /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	
4-Jan-18	18-Jan-18	19-Jan-18	1.19	
6-Feb-18	15-Feb-18	16-Feb-18	1.04	Org. matter / insects
8-Mar-18	16-Mar-18	20-Mar-18	1.23	Insects/Org.Matter
9-Apr-18	18-May-18	30-Apr-18	0.93	
8-May-18	14-Jun-18	24-May-18	1.87	
6-Jun-18	7-Jun-18	22-Jun-18	1.60	
5-Jul-18	11-Jul-18	24-Jul-18	0.97	Org.matter
6-Aug-18	10-Aug-18	13-Aug-18	1.15	Org.matter
5-Sep-18	6-Sep-18	18-Sep-18	1.75	Org.matter
3-Oct-18	4-Oct-18	19-Oct-18	1.47	Ants
2-Nov-18	12-Nov-18	16-Nov-18	0.64	
5-Dec-18	10-Dec-18	19-Dec-18	1.95	Org. matter

Sampling Point: Monitoring Point 6 - O₂ 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 - O₂ 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	
1-Jan-18	14-Jan-18	13-Feb-18	0.00	6.38	21.00	
15-Jan-18	28-Jan-18	13-Feb-18	3.90	7.76	21.20	
29-Jan-18	11-Feb-18	15-Mar-18	0.00	6.97	21.00	
12-Feb-18	25-Feb-18	15-Mar-18	2.80	5.59	15.40	
26-Feb-18	11-Mar-18	13-Apr-18	2.50	6.83	21.10	
12-Mar-18	25-Mar-18	13-Apr-18	1.80	9.47	21.30	
26-Mar-18	8-Apr-18	13-Apr-18	2.60	7.12	21.10	
9-Apr-18	22-Apr-18	24-May-18	n/a	n/a	n/a	Shut 09/04/18 - 27/04/18
23-Apr-18	6-May-18	24-May-18	2.50	8.66	21.50	
7-May-18	20-May-18	22-Jun-18	3.70	6.18	20.90	
21-May-18	3-Jun-18	22-Jun-18	1.00	7.61	21.30	
4-Jun-18	17-Jun-18	13-Jul-18	1.60	4.80	21.00	
18-Jun-18	1-Jul-18	13-Jul-18	0.80	4.66	20.90	
2-Jul-18	15-Jul-18	13-Aug-18	1.40	4.70	19.30	
16-Jul-18	29-Jul-18	13-Aug-18	2.20	5.18	21.00	
30-Jul-18	12-Aug-18	18-Sep-18	0.00	5.98	21.20	
13-Aug-18	26-Aug-18	18-Sep-18	0.00	4.16	21.00	
27-Aug-18	9-Sep-18	19-Oct-18	0.90	4.59	20.90	
10-Sep-18	23-Sep-18	19-Oct-18	0.00	4.28	21.10	
24-Sep-18	7-Oct-18	19-Oct-18	1.50	4.28	21.00	
8-Oct-18	21-Oct-18	16-Nov-18	1.80	5.34	21.10	
22-Oct-18	4-Nov-18	16-Nov-18	0.00	4.71	21.00	
5-Nov-18	18-Nov-18	19-Dec-18	0.00	5.28	21.20	
19-Nov-18	2-Dec-18	19-Dec-18	1.60	4.69	9.80	
3-Dec-18	16-Dec-18	18-Jan-19	4.30	11.24	21.70	
17-Dec-18	30-Dec-18	18-Jan-19	0.00	6.62	21.00	
31-Dec-18	13-Jan-19	18-Jan-19	0.00	7.18	21.30	

Sampling Point: Monitoring Point 7 - O₂ 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	No Data	No Data	No Data	Boiler Not Operating
19-Jan-15	1-Feb-15	6-Feb-15	No Data	No Data	No Data	Boiler Not Operating
2-Feb-15	15-Feb-15	9-Mar-15	No Data	No Data	No Data	Boiler Not Operating
16-Feb-15	1-Mar-15	9-Mar-15	No Data	No Data	No Data	Boiler Not Operating
2-Mar-15	15-Mar-15	8-Apr-15	No Data	No Data	No Data	Boiler Not Operating
16-Mar-15	29-Mar-15	7-May-15	No Data	No Data	No Data	Boiler Not Operating
30-Mar-15	12-Apr-15	7-May-15	No Data	No Data	No Data	Boiler Not Operating
13-Apr-15	26-Apr-15	7-May-15	No Data	No Data	No Data	Boiler Not Operating
27-Apr-15	10-May-15	9-Jun-15	No Data	No Data	No Data	Boiler Not Operating
11-May-15	24-May-15	9-Jun-15	No Data	No Data	No Data	Boiler Not Operating
25-May-15	7-Jun-15	7-Jul-15	No Data	No Data	No Data	Boiler Not Operating
8-Jun-15	21-Jun-15	7-Jul-15	No Data	No Data	No Data	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-Jul-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	

Sampling Point: Monitoring Point 7 - O₂ 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	
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
1-Jan-18	14-Jan-18	16-Feb-18	No Data	No Data	No Data	Boiler Not Operating
15-Jan-18	28-Jan-18	16-Feb-18	No Data	No Data	No Data	Boiler Not Operating
29-Jan-18	11-Feb-18	16-Feb-18	No Data	No Data	No Data	Boiler Not Operating
12-Feb-18	25-Feb-18	16-Feb-18	No Data	No Data	No Data	Boiler Not Operating
26-Feb-18	11-Mar-18	16-Feb-18	No Data	No Data	No Data	Boiler Not Operating
12-Mar-18	25-Mar-18	16-Feb-18	No Data	No Data	No Data	Boiler Not Operating
26-Mar-18	8-Apr-18	23-May-18	No Data	No Data	No Data	Boiler Not Operating
9-Apr-18	22-Apr-18	23-May-18	No Data	No Data	No Data	Boiler Not Operating
23-Apr-18	6-May-18	23-May-18	No Data	No Data	No Data	Boiler Not Operating
7-May-18	20-May-18	22-Jun-18	No Data	No Data	No Data	Boiler Not Operating
21-May-18	3-Jun-18	22-Jun-18	No Data	No Data	No Data	Boiler Not Operating
4-Jun-18	17-Jun-18	13-Jul-18	0.00	21.00	7.96	Boiler Started 06-07-18
18-Jun-18	1-Jul-18	13-Jul-18	0.00	21.00	21.00	
2-Jul-18	15-Jul-18	16-Aug-18	0.02	21.00	7.01	Boiler 12 Shutdown 01-07-18 - 08-07-18
16-Jul-18	29-Jul-18	16-Aug-18	0.04	21.00	7.02	
30-Jul-18	12-Aug-18	18-Sep-18	0.00	21.00	10.53	
13-Aug-18	26-Aug-18	18-Sep-18	0.00	21.00	7.41	
27-Aug-18	9-Sep-18	19-Oct-18	1.41	21.00	7.65	
10-Sep-18	23-Sep-18	19-Oct-18	0.00	21.00	6.63	
24-Sep-18	7-Oct-18	16-Nov-18	0.00	1.91	21.00	
8-Oct-18	21-Oct-18	16-Nov-18	0.00	0.16	21.00	
22-Oct-18	4-Nov-18	19-Dec-18	0.00	20.80	6.50	
5-Nov-18	18-Nov-18	19-Dec-18	0.00	20.48	6.96	
19-Nov-18	2-Dec-18	19-Dec-18	0.02	20.48	9.76	Boiler 12 Shutdown 29-11-18
3-Dec-18	16-Dec-18	18-Jan-19	No Data	No Data	No Data	Boiler Not Operating
17-Dec-18	30-Dec-18	18-Jan-19	No Data	No Data	No Data	Boiler Not Operating
31-Dec-18	13-Jan-19	18-Jan-19	No Data	No Data	No Data	Boiler Not Operating

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: Continous online
Limits: Seet 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	
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	

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: Continous online
Limits: Seet 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	
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	Error with temperature probe on 10/11/16 after lightning storm, new 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	
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	

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: Continous online
Limits: Seet 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	
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	
1-Jan-18	14-Jan-18	13-Feb-18	29	37	41	137184	137184	137184	
15-Jan-18	28-Jan-18	13-Feb-18	26	37	40	78976	132198	137184	
29-Jan-18	11-Feb-18	15-Mar-18	27	39	41	92599	133369	137184	
12-Feb-18	25-Feb-18	15-Mar-18	27	29	41	137184	137184	137184	
26-Feb-18	11-Mar-18	13-Apr-18	22	35	40	136327	137109	137184	
12-Mar-18	25-Mar-18	13-Apr-18	23	32	39	101792	133393	137184	
26-Mar-18	8-Apr-18	13-Apr-18	24	35	40	136470	137125	137184	
9-Apr-18	22-Apr-18	24-May-18	n/a	n/a	n/a	n/a	n/a	n/a	Shut 09/04/18 - 27/04/18
23-Apr-18	6-May-18	24-May-18	20	33	40	68592	68592	68592	
7-May-18	20-May-18	22-Jun-18	19	36	41	68783	75737	104079	
21-May-18	3-Jun-18	22-Jun-18	17	32	38	68592	83886	111176	
4-Jun-18	17-Jun-18	13-Jul-18	17	27	37	136470	137120	137184	
18-Jun-18	1-Jul-18	13-Jul-18	15	25	31	134326	136712	137184	
2-Jul-18	15-Jul-18	13-Aug-18	16	26	34	128277	135803	137184	
16-Jul-18	29-Jul-18	13-Aug-18	15	25	34	122227	134830	137184	
30-Jul-18	12-Aug-18	18-Sep-18	16	26	31	134898	136779	137184	
13-Aug-18	26-Aug-18	18-Sep-18	18	27	32	134564	136839	137184	
27-Aug-18	9-Sep-18	19-Oct-18	18	29	40	135422	136997	137184	
10-Sep-18	23-Sep-18	19-Oct-18	19	30	36	121798	135699	137184	
24-Sep-18	7-Oct-18	19-Oct-18	20	31	36	136565	137077	137184	
8-Oct-18	21-Oct-18	16-Nov-18	21	31	35	135088	137001	137184	
22-Oct-18	4-Nov-18	16-Nov-18	23	33	39	130515	136549	137184	
5-Nov-18	18-Nov-18	19-Dec-18	21	35	40	106461	134354	137184	
19-Nov-18	2-Dec-18	19-Dec-18	29	35	40	134517	136819	137184	
3-Dec-18	16-Dec-18	18-Jan-19	23	34	41	6764	116321	137184	
17-Dec-18	30-Dec-18	18-Jan-19	27	37	43	112224	134874	137184	Temperature excursion at this time due to a clean of the cooling water screens and transitioning between pumps
31-Dec-18	13-Jan-19	18-Jan-19	27	38	41	75737	130769	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 Continous 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	
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

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 Continous 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	
1-Jan-18	14-Jan-18	13-Feb-18	26.5	28.4	30.2	137184	137184	137184	
15-Jan-18	28-Jan-18	13-Feb-18	24.4	27.6	30.3	78976	132198	137184	
29-Jan-18	11-Feb-18	15-Mar-18	26.6	28.7	30.4	92599	133369	137184	
12-Feb-18	25-Feb-18	15-Mar-18	26.6	28.7	30.4	137184	137184	137184	
26-Feb-18	11-Mar-18	13-Apr-18	23.4	26.3	28.9	136327	137109	137184	
12-Mar-18	25-Mar-18	13-Apr-18	23.4	25.3	27.0	101792	133393	137184	
26-Mar-18	8-Apr-18	13-Apr-18	24.7	26.0	26.7	136470	137125	137184	
9-Apr-18	22-Apr-18	24-May-18	n/a	n/a	n/a	n/a	n/a	n/a	Shut 09/04/18 - 27/04/18
23-Apr-18	6-May-18	24-May-18	21.1	24.1	28.0	68592	68592	68592	
7-May-18	20-May-18	22-Jun-18	18.7	23.2	23.2	68783	75737	104079	
21-May-18	3-Jun-18	22-Jun-18	18.0	19.1	20.2	68592	83886	111176	
4-Jun-18	17-Jun-18	13-Jul-18	17.0	18.2	19.5	136470	137120	137184	
18-Jun-18	1-Jul-18	13-Jul-18	15.7	16.7	17.8	134326	136712	137184	
2-Jul-18	15-Jul-18	13-Aug-18	16.4	17.6	19.3	128277	135803	137184	
16-Jul-18	29-Jul-18	13-Aug-18	15.6	16.8	18.7	122227	134830	137184	
30-Jul-18	12-Aug-18	18-Sep-18	17.1	18.1	19.3	134898	136779	137184	
13-Aug-18	26-Aug-18	18-Sep-18	16.7	18.0	27.5	134564	136839	137184	
27-Aug-18	9-Sep-18	19-Oct-18	17.5	18.9	20.5	135422	136997	137184	
10-Sep-18	23-Sep-18	19-Oct-18	18.4	21.1	23.2	121798	135699	137184	
24-Sep-18	7-Oct-18	19-Oct-18	20.4	21.8	23.7	136565	137077	137184	
8-Oct-18	21-Oct-18	16-Nov-18	19.5	21.8	24.3	135088	137001	137184	
22-Oct-18	4-Nov-18	16-Nov-18	22.1	24.6	26.9	130515	136549	137184	
5-Nov-18	18-Nov-18	19-Dec-18	22.3	26.6	28.6	106461	134354	137184	
19-Nov-18	2-Dec-18	19-Dec-18	24.6	26.3	28.2	134517	136819	137184	
3-Dec-18	16-Dec-18	18-Jan-19	18.8	27.5	47.1	6764	116321	137184	
17-Dec-18	30-Dec-18	18-Jan-19	24.0	27.8	29.6	112224	134874	137184	
31-Dec-18	13-Jan-19	18-Jan-19	27.3	28.5	40.0	75737	130769	137184	

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



			PARAMETERS MEASURED					
Date Sampled	Date Received	Date Published	BOD ₅ (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-18	16-Nov-17	12.0	40.0	6.5	1.2	0.5	
22-Nov-17	6-Dec-18	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	
30-Jan-18	8-Feb-18	13-Feb-18	1.7	n/a	6.6	0.9	0.5	Result recorded is deemed not valid (1144)
8-Feb-18	15-Feb-18	15-Mar-18	24.0	388.0	6.5	4.9	2.7	
15-Mar-18	15-Mar-18	28-Mar-18	36.8	117.0	6.3	2.3	1.1	
17-Apr-18	17-Apr-18	24-May-18	27.0	330.0	6.5	3.6	1.2	
17-May-18	17-May-18	24-May-18	3.5	7.0	6.3	0.9	0.8	
14-Jun-18	14-Jun-18	22-Jun-18	34.0	124.0	6.4	1.0	1.0	
24-Jul-18	25-Jul-18	16-Aug-18	2.7	4.0	7.2	0.9	0.4	
15-Aug-18	15-Aug-18	18-Sep-18	2.4	13.0	7.3	0.8	0.2	
20-Sep-18	20-Sep-18	19-Oct-18	3.0	12.0	7.3	0.9	0.3	
30-Oct-18	30-Oct-18	16-Nov-18	3.4	10.0	6.8	1.4	0.7	
23-Nov-18	23-Nov-18	19-Dec-18	4.3	11.0	7.2	1.3	0.8	
7-Dec-18	7-Dec-18	18-Jan-19	5.4	19.0	7.4	1.5	0.7	

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



			PARAMETERS MEASURED					
Date Sampled	Date Received	Date Published	BOD ₅ (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-17	16-Nov-17	7.3	115.0	6.7	1.1	0.6	
22-Nov-17	6-Dec-17	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	
30-Jan-18	8-Feb-18	13-Jan-18	2.9	n/a	7.4	0.9	0.5	Result recorded is deemed not valid (7050.0)
8-Feb-18	15-Feb-18	15-Mar-18	3.0	12.0	7.7	0.8	0.5	
15-Mar-18	15-Mar-18	28-Mar-18	3.2	15.0	7.2	1.0	0.6	
17-Apr-18	17-Apr-18	24-May-18	4.8	17.0	7.5	1.1	0.7	
17-May-18	17-May-18	24-May-18	1.9	7.0	7.2	0.9	0.4	
14-Jun-18	14-Jun-18	22-Jun-18	6.7	13.0	6.8	1.0	0.3	
24-Jul-18	25-Jul-18	16-Aug-18	1.3	29.0	6.6	0.4	0.9	
15-Aug-18	15-Aug-18	18-Sep-18	1.8	28.0	6.6	0.6	0.5	
20-Sep-18	20-Sep-18	19-Oct-18	3.8	21.0	6.6	0.7	0.9	
30-Oct-18	30-Oct-18	16-Nov-18	22.3	36.0	6.7	1.1	1.2	
23-Nov-18	23-Nov-18	18-Jan-19	5.4	25.0	6.5	0.6	0.9	
7-Dec-18	7-Dec-18	18-Jan-19	6.0	18.0	6.7	0.5	0.8	

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	
		14-Dec-17	22-Dec-17	22-Dec-17	0.262	
		15-Mar-18	29-Mar-18	22-Jun-18	0.070	
		14-Jun-18	25-Jun-18	12-Jul-18	0.490	
		20-Sep-18	15-Oct-18	19-Oct-18	0.405	
		07-Dec-18	04-Jan-19	18-Jan-19	0.312	
		Ammonia	mg/l	16-Jul-14	07-Aug-14	12-Aug-14
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	
14-Dec-17	22-Dec-17			22-Dec-17	<0.005	
15-Mar-18	29-Mar-18			22-Jun-18	0.058	
14-Jun-18	25-Jun-18			12-Jul-18	0.019	
20-Sep-18	15-Oct-18			19-Oct-18	0.970	
07-Dec-18	04-Jan-19			18-Jan-19	0.460	
Arsenic	mg/l			16-Jul-14	07-Aug-14	12-Aug-14
		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	
		14-Dec-17	22-Dec-17	22-Dec-17	0.001	
		15-Mar-18	29-Mar-18	22-Jun-18	<0.001	
		14-Jun-18	25-Jun-18	12-Jul-18	0.002	
		20-Sep-18	15-Oct-18	19-Oct-18	0.002	
		07-Dec-18	04-Jan-19	18-Jan-19	0.002	
		Barium	mg/l	16-Jul-14	07-Aug-14	12-Aug-14
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	
14-Dec-17	22-Dec-17			22-Dec-17	0.017	
15-Mar-18	29-Mar-18			22-Jun-18	0.021	
14-Jun-18	25-Jun-18			12-Jul-18	0.102	
20-Sep-18	15-Oct-18			19-Oct-18	0.102	
07-Dec-18	04-Jan-19			18-Jan-19	0.067	
Bicarbonate	CaCO ₃ /kg			16-Jul-14	07-Aug-14	12-Aug-14
		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	
		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	
		14-Dec-17	22-Dec-17	22-Dec-17	10.000	
		15-Mar-18	29-Mar-18	22-Jun-18	28.000	
		14-Jun-18	25-Jun-18	12-Jul-18	140.000	
		20-Sep-18	15-Oct-18	19-Oct-18	165.000	

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/prpocapp/>
Parameters Measure: See Table
Frequency & Method: Biannual Grab Sample
Licence Limits: Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
Cadmium	mg/l	07-Dec-18	04-Jan-19	18-Jan-19	32.000	
		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	
		14-Dec-17	22-Dec-17	22-Dec-17	<0.001	
		15-Mar-18	29-Mar-18	22-Jun-18	<0.001	
		14-Jun-18	25-Jun-18	12-Jul-18	<0.001	
		20-Sep-18	15-Oct-18	19-Oct-18	<0.001	
		07-Dec-18	04-Jan-19	18-Jan-19	<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	
		07-Dec-18	04-Jan-19	18-Jan-19	18.700	
		14-Dec-17	22-Dec-17	22-Dec-17	4.900	
		15-Mar-18	29-Mar-18	22-Jun-18	4.600	
		14-Jun-18	25-Jun-18	12-Jul-18	49.700	
		20-Sep-18	15-Oct-18	19-Oct-18	50.000	
		07-Dec-18	04-Jan-19	18-Jan-19	18.700	
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	
		14-Dec-17	22-Dec-17	22-Dec-17	17.000	
		15-Mar-18	29-Mar-18	22-Jun-18	1.100	
		14-Jun-18	25-Jun-18	12-Jul-18	141.000	
		20-Sep-18	15-Oct-18	19-Oct-18	1.800	
		07-Dec-18	04-Jan-19	18-Jan-19	98.000	
		Chromium	mg/l	16-Jul-14	07-Aug-14	12-Aug-14
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	
14-Dec-17	22-Dec-17			22-Dec-17	<0.001	
15-Mar-18	29-Mar-18			22-Jun-18	<0.001	
14-Jun-18	25-Jun-18			12-Jul-18	0.002	
20-Sep-18	15-Oct-18			19-Oct-18	0.001	
07-Dec-18	04-Jan-19			18-Jan-19	0.001	
Conductivity	dS/m			16-Jul-14	07-Aug-14	12-Aug-14
		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	
		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	
		14-Dec-17	22-Dec-17	22-Dec-17	0.113	
		15-Mar-18	29-Mar-18	22-Jun-18	0.103	
		14-Jun-18	25-Jun-18	12-Jul-18	0.100	
		20-Sep-18	15-Oct-18	19-Oct-18	0.984	
		07-Dec-18	04-Jan-19	18-Jan-19	0.532	
		Copper	mg/l	16-Jul-14	07-Aug-14	12-Aug-14
15-Oct-14	07-Nov-14			19-Dec-14	<0.001	
07-Jan-15	20-Jan-15			06-Feb-15	<0.001	

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/prpocapp/>
Parameters Measure: See Table
Frequency & Method: Biannual Grab Sample
Licence Limits: Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
		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	
		14-Dec-17	22-Dec-17	22-Dec-17	0.001	
		15-Mar-18	29-Mar-18	22-Jun-18	0.001	
		14-Jun-18	25-Jun-18	12-Jul-18	0.002	
		20-Sep-18	15-Oct-18	19-Oct-18	0.003	
		07-Dec-18	04-Jan-19	18-Jan-19	0.001	
Hardness (as calcium)	CaCO ₃ /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	
		14-Dec-17	22-Dec-17	22-Dec-17	24.000	
		15-Mar-18	29-Mar-18	22-Jun-18	29.000	
		14-Jun-18	25-Jun-18	12-Jul-18	207.000	
		20-Sep-18	15-Oct-18	19-Oct-18	203.000	
		07-Dec-18	04-Jan-19	18-Jan-19	81.000	
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	
		14-Dec-17	22-Dec-17	22-Dec-17	5.194	
		15-Mar-18	29-Mar-18	22-Jun-18	0.821	
		14-Jun-18	25-Jun-18	12-Jul-18	9.597	
		20-Sep-18	15-Oct-18	19-Oct-18	9.570	
		07-Dec-18	04-Jan-19	18-Jan-19	3.813	
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	
		10-Aug-17	18-Aug-17	19-Sep-17	<0.001	
		21-Sep-17	06-Oct-17	12-Oct-17	<0.001	
		14-Dec-17	22-Dec-17	22-Dec-17	<0.001	
		15-Mar-18	29-Mar-18	22-Jun-18	<0.001	
		14-Jun-18	25-Jun-18	12-Jul-18	<0.001	
		20-Sep-18	15-Oct-18	19-Oct-18	<0.001	
		07-Dec-18	04-Jan-19	18-Jan-19	<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	
		14-Dec-17	22-Dec-17	22-Dec-17	2.800	
		15-Mar-18	29-Mar-18	22-Jun-18	4.100	
		14-Jun-18	25-Jun-18	12-Jul-18	20.100	
		20-Sep-18	15-Oct-18	19-Oct-18	19.000	
		07-Dec-18	04-Jan-19	18-Jan-19	8.400	
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	

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/prpocapp/>
Parameters Measure: See Table
Frequency & Method: Biannual Grab Sample
Licence Limits: Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
		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	
		14-Dec-17	22-Dec-17	22-Dec-17	0.152	
		15-Mar-18	29-Mar-18	22-Jun-18	0.020	
		14-Jun-18	25-Jun-18	12-Jul-18	0.095	
		20-Sep-18	15-Oct-18	19-Oct-18	0.084	
		07-Dec-18	04-Jan-19	18-Jan-19	0.043	
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	
		14-Dec-17	22-Dec-17	22-Dec-17	<0.0005	
		15-Mar-18	29-Mar-18	22-Jun-18	<0.0005	
		14-Jun-18	25-Jun-18	12-Jul-18	<0.0005	
		20-Sep-18	15-Oct-18	19-Oct-18	<0.0005	
		07-Dec-18	04-Jan-19	18-Jan-19	<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	
		14-Dec-17	22-Dec-17	22-Dec-17	0.001	
		15-Mar-18	29-Mar-18	22-Jun-18	<0.001	
		14-Jun-18	25-Jun-18	12-Jul-18	0.001	
		20-Sep-18	15-Oct-18	19-Oct-18	0.001	
		07-Dec-18	04-Jan-19	18-Jan-19	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	
		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	
		14-Dec-17	22-Dec-17	22-Dec-17	0.029	
		15-Mar-18	29-Mar-18	22-Jun-18	0.087	
		14-Jun-18	25-Jun-18	12-Jul-18	0.043	
		20-Sep-18	15-Oct-18	19-Oct-18	<0.005	
		07-Dec-18	04-Jan-19	18-Jan-19	<0.005	
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	
		10-Aug-17	18-Aug-17	19-Sep-17	0.005	
		21-Sep-17	06-Oct-17	12-Oct-17	0.007	
		14-Dec-17	22-Dec-17	22-Dec-17	0.009	
		15-Mar-18	29-Mar-18	22-Jun-18	0.005	
		14-Jun-18	25-Jun-18	12-Jul-18	0.384	
		20-Sep-18	15-Oct-18	19-Oct-18	0.069	
		07-Dec-18	04-Jan-19	18-Jan-19	0.043	
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	
		10-Aug-17	18-Aug-17	19-Sep-17	0.021	

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/prpocapp/>
Parameters Measure: See Table
Frequency & Method: Biannual Grab Sample
Licence Limits: Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
		21-Sep-17	06-Oct-17	12-Oct-17	<0.005	
		14-Dec-17	22-Dec-17	22-Dec-17	0.017	
		15-Mar-18	29-Mar-18	22-Jun-18	1.650	
		14-Jun-18	25-Jun-18	12-Jul-18	2.320	
		20-Sep-18	15-Oct-18	19-Oct-18	0.070	
Potassium	mg/l	07-Dec-18	04-Jan-19	18-Jan-19	0.027	
		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	
		10-Aug-17	18-Aug-17	19-Sep-17	2.000	
		Selenium	mg/l	21-Sep-17	06-Oct-17	12-Oct-17
14-Dec-17	22-Dec-17			22-Dec-17	1.100	
15-Mar-18	29-Mar-18			22-Jun-18	1.100	
14-Jun-18	25-Jun-18			12-Jul-18	15.400	
20-Sep-18	15-Oct-18			19-Oct-18	14.000	
07-Dec-18	04-Jan-19			18-Jan-19	3.700	
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	
Silica (total)	mg/l			20-Sep-16	30-Sep-16	14-Oct-16
		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	
		10-Aug-17	18-Aug-17	19-Sep-17	<0.002	
		21-Sep-17	06-Oct-17	12-Oct-17	0.001	
		14-Dec-17	22-Dec-17	22-Dec-17	<0.002	
		15-Mar-18	29-Mar-18	22-Jun-18	<0.010	
		14-Jun-18	25-Jun-18	12-Jul-18	0.001	
		20-Sep-18	15-Oct-18	19-Oct-18	<0.002	
		07-Dec-18	04-Jan-19	18-Jan-19	<0.001	
		16-Jul-14	07-Aug-14	12-Aug-14	17.010	
		15-Oct-14	07-Nov-14	19-Dec-14	23.000	
		07-Jan-15	20-Jan-15	06-Feb-15	4.482	
		Silver	mg/l	07-Jul-15	29-Jul-15	10-Aug-15
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	
14-Dec-17	22-Dec-17			22-Dec-17	3.130	
15-Mar-18	29-Mar-18			22-Jun-18	2.100	
14-Jun-18	25-Jun-18			12-Jul-18	26.500	
Sodium	mg/l			20-Sep-18	15-Oct-18	19-Oct-18
		07-Dec-18	04-Jan-19	18-Jan-19	14.810	
		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			
14-Dec-17	22-Dec-17	22-Dec-17	<0.001			
15-Mar-18	29-Mar-18	22-Jun-18	<0.001			
14-Jun-18	25-Jun-18	12-Jul-18	<0.001			
20-Sep-18	15-Oct-18	19-Oct-18	<0.001			
07-Dec-18	04-Jan-19	18-Jan-19	<0.001			
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			
14-Dec-17	22-Dec-17	22-Dec-17	13.500			
15-Mar-18	29-Mar-18	22-Jun-18	6.900			
14-Jun-18	25-Jun-18	12-Jul-18	123.300			
20-Sep-18	15-Oct-18	19-Oct-18	109.000			

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/prpocapp/>
Parameters Measure: See Table
Frequency & Method: Biannual Grab Sample
Licence Limits: Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
		07-Dec-18	04-Jan-19	18-Jan-19	64.900	
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	
		14-Dec-17	22-Dec-17	22-Dec-17	1.200	
		15-Mar-18	29-Mar-18	22-Jun-18	0.600	
		14-Jun-18	25-Jun-18	12-Jul-18	3.700	
		20-Sep-18	15-Oct-18	19-Oct-18	3.300	
		07-Dec-18	04-Jan-19	18-Jan-19	3.100	
		Sulfate	mg/l	16-Jul-14	07-Aug-14	12-Aug-14
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	
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	
14-Dec-17	22-Dec-17			22-Dec-17	12.600	
15-Mar-18	29-Mar-18			22-Jun-18	11.000	
14-Jun-18	25-Jun-18			12-Jul-18	74.000	
20-Sep-18	15-Oct-18			19-Oct-18	3.300	
07-Dec-18	04-Jan-19			18-Jan-19	57.000	
Total Dissolved Salts	mg/l			16-Jul-14	07-Aug-14	12-Aug-14
		15-Oct-14	07-Nov-14	19-Dec-14	588.000	
		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	
		14-Dec-17	22-Dec-17	22-Dec-17	77.000	
		15-Mar-18	29-Mar-18	22-Jun-18	70.000	
		14-Jun-18	25-Jun-18	12-Jul-18	68.000	
		20-Sep-18	15-Oct-18	19-Oct-18	669.000	
		07-Dec-18	04-Jan-19	18-Jan-19	362.000	
		Total Organic Carbon	mg/l	16-Jul-14	07-Aug-14	12-Aug-14
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	
14-Dec-17	22-Dec-17			22-Dec-17	18.900	
15-Mar-18	29-Mar-18			22-Jun-18	7.200	
14-Jun-18	25-Jun-18			12-Jul-18	32.100	
20-Sep-18	15-Oct-18			19-Oct-18	19.000	
07-Dec-18	04-Jan-19			18-Jan-19	14.000	
Total Suspended Solids	mg/l			16-Jul-14	07-Aug-14	12-Aug-14
		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	
		14-Dec-17	22-Dec-17	22-Dec-17	2.000	
		15-Mar-18	29-Mar-18	22-Jun-18	2.000	
		14-Jun-18	25-Jun-18	12-Jul-18	<1	
		20-Sep-18	15-Oct-18	19-Oct-18	<1	
		07-Dec-18	04-Jan-19	18-Jan-19	<1	
		Zinc	mg/l	16-Jul-14	07-Aug-14	12-Aug-14

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
		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	
		14-Dec-17	22-Dec-17	22-Dec-17	0.007	
		15-Mar-18	29-Mar-18	22-Jun-18	0.002	
		14-Jun-18	25-Jun-18	12-Jul-18	0.006	
		20-Sep-18	15-Oct-18	19-Oct-18	0.004	
		07-Dec-18	04-Jan-19	18-Jan-19	0.002	
pH		16-Jul-14	07-Aug-14	12-Aug-14	6.370	
		15-Oct-14	07-Nov-14	19-Dec-14	6.850	
		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	6.630	
					5.980	
		14-Dec-17	22-Dec-17	22-Dec-17	7.050	
		14-Jun-18	25-Jun-18	12-Jul-18	7.270	
		20-Sep-18	15-Oct-18	19-Oct-18	7.410	
		07-Dec-18	04-Jan-19	18-Jan-19	6.990	

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 GUAGE 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
Monday, 1 January 2018	9:01am	Tuesday, 2 January 2018	9:00am	0	0
Tuesday, 2 January 2018	9:01am	Wednesday, 3 January 2018	9:00am	16.2	2
Wednesday, 3 January 2018	9:01am	Thursday, 4 January 2018	9:00am	23.8	1.2
Thursday, 4 January 2018	9:01am	Friday, 5 January 2018	9:00am	0	0
Friday, 5 January 2018	9:01am	Saturday, 6 January 2018	9:00am	0	0
Saturday, 6 January 2018	9:01am	Sunday, 7 January 2018	9:00am	0	0
Sunday, 7 January 2018	9:01am	Monday, 8 January 2018	9:00am	0	0
Monday, 8 January 2018	9:01am	Tuesday, 9 January 2018	9:00am	0	0
Tuesday, 9 January 2018	9:01am	Wednesday, 10 January 2018	9:00am	0	0
Wednesday, 10 January 2018	9:01am	Thursday, 11 January 2018	9:00am	0	0
Thursday, 11 January 2018	9:01am	Friday, 12 January 2018	9:00am	0	0
Friday, 12 January 2018	9:01am	Saturday, 13 January 2018	9:00am	0	0
Saturday, 13 January 2018	9:01am	Sunday, 14 January 2018	9:00am	0	0
Sunday, 14 January 2018	9:01am	Monday, 15 January 2018	9:00am	0	0
Monday, 15 January 2018	9:01am	Tuesday, 16 January 2018	9:00am	0	0
Tuesday, 16 January 2018	9:01am	Wednesday, 17 January 2018	9:00am	0	0
Wednesday, 17 January 2018	9:01am	Thursday, 18 January 2018	9:00am	0	0
Thursday, 18 January 2018	9:01am	Friday, 19 January 2018	9:00am	0	0
Friday, 19 January 2018	9:01am	Saturday, 20 January 2018	9:00am	0	0
Saturday, 20 January 2018	9:01am	Sunday, 21 January 2018	9:00am	0.2	0.2
Sunday, 21 January 2018	9:01am	Monday, 22 January 2018	9:00am	2.4	0.4
Monday, 22 January 2018	9:01am	Tuesday, 23 January 2018	9:00am	0	0
Tuesday, 23 January 2018	9:01am	Wednesday, 24 January 2018	9:00am	0	0
Wednesday, 24 January 2018	9:01am	Thursday, 25 January 2018	9:00am	0	0
Thursday, 25 January 2018	9:01am	Friday, 26 January 2018	9:00am	0	0
Friday, 26 January 2018	9:01am	Saturday, 27 January 2018	9:00am	0	0
Saturday, 27 January 2018	9:01am	Sunday, 28 January 2018	9:00am	0	0
Sunday, 28 January 2018	9:01am	Monday, 29 January 2018	9:00am	0	0
Monday, 29 January 2018	9:01am	Tuesday, 30 January 2018	9:00am	1.6	0.4
Tuesday, 30 January 2018	9:01am	Wednesday, 31 January 2018	9:00am	4.6	0.6
Wednesday, 31 January 2018	9:01am	Thursday, 1 February 2018	9:00am	0.2	0.2
Thursday, 1 February 2018	9:01am	Friday, 2 February 2018	9:00am	15.8	0.2
Friday, 2 February 2018	9:01am	Saturday, 3 February 2018	9:00am	19	0.4
Saturday, 3 February 2018	9:01am	Sunday, 4 February 2018	9:00am	16.4	0.4
Sunday, 4 February 2018	9:01am	Monday, 5 February 2018	9:00am	8.6	1.2
Monday, 5 February 2018	9:01am	Tuesday, 6 February 2018	9:00am	8	1.2
Tuesday, 6 February 2018	9:01am	Wednesday, 7 February 2018	9:00am	0.4	0.2
Wednesday, 7 February 2018	9:01am	Thursday, 8 February 2018	9:00am	0.2	0.2
Thursday, 8 February 2018	9:01am	Friday, 9 February 2018	9:00am	0.6	0.2
Friday, 9 February 2018	9:01am	Saturday, 10 February 2018	9:00am	0.2	0.2
Saturday, 10 February 2018	9:01am	Sunday, 11 February 2018	9:00am	0	0
Sunday, 11 February 2018	9:01am	Monday, 12 February 2018	9:00am	0.2	0.2
Monday, 12 February 2018	9:01am	Tuesday, 13 February 2018	9:00am	0.4	0.2
Tuesday, 13 February 2018	9:01am	Wednesday, 14 February 2018	9:00am	0	0
Wednesday, 14 February 2018	9:01am	Thursday, 15 February 2018	9:00am	0	0
Thursday, 15 February 2018	9:01am	Friday, 16 February 2018	9:00am	0	0
Friday, 16 February 2018	9:01am	Saturday, 17 February 2018	9:00am	0	0
Saturday, 17 February 2018	9:01am	Sunday, 18 February 2018	9:00am	0	0
Sunday, 18 February 2018	9:01am	Monday, 19 February 2018	9:00am	0	0
Monday, 19 February 2018	9:01am	Tuesday, 20 February 2018	9:00am	0	0
Tuesday, 20 February 2018	9:01am	Wednesday, 21 February 2018	9:00am	0	0
Wednesday, 21 February 2018	9:01am	Thursday, 22 February 2018	9:00am	5	0.6
Thursday, 22 February 2018	9:01am	Friday, 23 February 2018	9:00am	0	0
Friday, 23 February 2018	9:01am	Saturday, 24 February 2018	9:00am	10.8	0.4
Saturday, 24 February 2018	9:01am	Sunday, 25 February 2018	9:00am	23.8	1
Sunday, 25 February 2018	9:01am	Monday, 26 February 2018	9:00am	26.6	1.4
Monday, 26 February 2018	9:01am	Tuesday, 27 February 2018	9:00am	0.2	0.2
Tuesday, 27 February 2018	9:01am	Wednesday, 28 February 2018	9:00am	12.8	0.4
Wednesday, 28 February 2018	9:01am	Thursday, 1 March 2018	9:00am	0	0
Thursday, 1 March 2018	9:01am	Friday, 2 March 2018	9:00am	0	0
Friday, 2 March 2018	9:01am	Saturday, 3 March 2018	9:00am	0	0
Saturday, 3 March 2018	9:01am	Sunday, 4 March 2018	9:00am	0.6	0.2
Sunday, 4 March 2018	9:01am	Monday, 5 March 2018	9:00am	0.2	0.2
Monday, 5 March 2018	9:01am	Tuesday, 6 March 2018	9:00am	0	0
Tuesday, 6 March 2018	9:01am	Wednesday, 7 March 2018	9:00am	36.4	0.6
Wednesday, 7 March 2018	9:01am	Thursday, 8 March 2018	9:00am	40.4	1.8
Thursday, 8 March 2018	9:01am	Friday, 9 March 2018	9:00am	0.8	0.2
Friday, 9 March 2018	9:01am	Saturday, 10 March 2018	9:00am	12	0.8
Saturday, 10 March 2018	9:01am	Sunday, 11 March 2018	9:00am	0.2	0.2
Sunday, 11 March 2018	9:01am	Monday, 12 March 2018	9:00am	2.4	0.2
Monday, 12 March 2018	9:01am	Tuesday, 13 March 2018	9:00am	3.4	0.4
Tuesday, 13 March 2018	9:01am	Wednesday, 14 March 2018	9:00am	3.4	0.4
Wednesday, 14 March 2018	9:01am	Thursday, 15 March 2018	9:00am	3.2	1
Thursday, 15 March 2018	9:01am	Friday, 16 March 2018	9:00am	0	0
Friday, 16 March 2018	9:01am	Saturday, 17 March 2018	9:00am	0	0
Saturday, 17 March 2018	9:01am	Sunday, 18 March 2018	9:00am	0.2	0.2
Sunday, 18 March 2018	9:01am	Monday, 19 March 2018	9:00am	0	0
Monday, 19 March 2018	9:01am	Tuesday, 20 March 2018	9:00am	0.2	0.2
Tuesday, 20 March 2018	9:01am	Wednesday, 21 March 2018	9:00am	0	0
Wednesday, 21 March 2018	9:01am	Thursday, 22 March 2018	9:00am	0	0
Thursday, 22 March 2018	9:01am	Friday, 23 March 2018	9:00am	6.4	0.6
Friday, 23 March 2018	9:01am	Saturday, 24 March 2018	9:00am	16.6	1.6
Saturday, 24 March 2018	9:01am	Sunday, 25 March 2018	9:00am	17.4	1
Sunday, 25 March 2018	9:01am	Monday, 26 March 2018	9:00am	0.2	0.2
Monday, 26 March 2018	9:01am	Tuesday, 27 March 2018	9:00am	0.2	0.2
Tuesday, 27 March 2018	9:01am	Wednesday, 28 March 2018	9:00am	0	0
Wednesday, 28 March 2018	9:01am	Thursday, 29 March 2018	9:00am	6.2	0.4
Thursday, 29 March 2018	9:01am	Friday, 30 March 2018	9:00am	0.6	0.2
Friday, 30 March 2018	9:01am	Saturday, 31 March 2018	9:00am	3	0.6
Saturday, 31 March 2018	9:01am	Sunday, 1 April 2018	9:00am	0	0
Sunday, 1 April 2018	9:01am	Monday, 2 April 2018	9:00am	2.2	0.4
Monday, 2 April 2018	9:01am	Tuesday, 3 April 2018	9:00am	0.2	0.2
Tuesday, 3 April 2018	9:01am	Wednesday, 4 April 2018	9:00am	1.4	0.4

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)
Wednesday, 4 April 2018	9:01am	Thursday, 5 April 2018	9:00am	0.8	0.2
Thursday, 5 April 2018	9:01am	Friday, 6 April 2018	9:00am	0.8	0.2
Friday, 6 April 2018	9:01am	Saturday, 7 April 2018	9:00am	0.8	0.2
Saturday, 7 April 2018	9:01am	Sunday, 8 April 2018	9:00am	0.2	0.2
Sunday, 8 April 2018	9:01am	Monday, 9 April 2018	9:00am	0.2	0.2
Monday, 9 April 2018	9:01am	Tuesday, 10 April 2018	9:00am	0.2	0.2
Tuesday, 10 April 2018	9:01am	Wednesday, 11 April 2018	9:00am	0	0
Wednesday, 11 April 2018	9:01am	Thursday, 12 April 2018	9:00am	0.8	0.2
Thursday, 12 April 2018	9:01am	Friday, 13 April 2018	9:00am	0.2	0.2
Friday, 13 April 2018	9:01am	Saturday, 14 April 2018	9:00am	0	0
Saturday, 14 April 2018	9:01am	Sunday, 15 April 2018	9:00am	0	0
Sunday, 15 April 2018	9:01am	Monday, 16 April 2018	9:00am	0.2	0.2
Monday, 16 April 2018	9:01am	Tuesday, 17 April 2018	9:00am	0	0
Tuesday, 17 April 2018	9:01am	Wednesday, 18 April 2018	9:00am	0	0
Wednesday, 18 April 2018	9:01am	Thursday, 19 April 2018	9:00am	9.6	0.8
Thursday, 19 April 2018	9:01am	Friday, 20 April 2018	9:00am	0	0
Friday, 20 April 2018	9:01am	Saturday, 21 April 2018	9:00am	0	0
Saturday, 21 April 2018	9:01am	Sunday, 22 April 2018	9:00am	0.8	0.2
Sunday, 22 April 2018	9:01am	Monday, 23 April 2018	9:00am	41.8	1.2
Monday, 23 April 2018	9:01am	Tuesday, 24 April 2018	9:00am	10.2	0.2
Tuesday, 24 April 2018	9:01am	Wednesday, 25 April 2018	9:00am	1.4	0.4
Wednesday, 25 April 2018	9:01am	Thursday, 26 April 2018	9:00am	31.4	0.8
Thursday, 26 April 2018	9:01am	Friday, 27 April 2018	9:00am	0.2	0.2
Friday, 27 April 2018	9:01am	Saturday, 28 April 2018	9:00am	0.2	0.2
Saturday, 28 April 2018	9:01am	Sunday, 29 April 2018	9:00am	3.6	0.4
Sunday, 29 April 2018	9:01am	Monday, 30 April 2018	9:00am	12	0.6
Monday, 30 April 2018	9:01am	Tuesday, 1 May 2018	9:00am	11.6	0.6
Tuesday, 1 May 2018	9:01am	Wednesday, 2 May 2018	9:00am	12.8	1
Wednesday, 2 May 2018	9:01am	Thursday, 3 May 2018	9:00am	0.2	0.2
Thursday, 3 May 2018	9:01am	Friday, 4 May 2018	9:00am	0	0
Friday, 4 May 2018	9:01am	Saturday, 5 May 2018	9:00am	0.2	0.2
Saturday, 5 May 2018	9:01am	Sunday, 6 May 2018	9:00am	0	0
Sunday, 6 May 2018	9:01am	Monday, 7 May 2018	9:00am	0	0
Monday, 7 May 2018	9:01am	Tuesday, 8 May 2018	9:00am	0	0
Tuesday, 8 May 2018	9:01am	Wednesday, 9 May 2018	9:00am	13.6	0.8
Wednesday, 9 May 2018	9:01am	Thursday, 10 May 2018	9:00am	1.4	1.2
Thursday, 10 May 2018	9:01am	Friday, 11 May 2018	9:00am	0.4	0.2
Friday, 11 May 2018	9:01am	Saturday, 12 May 2018	9:00am	0	0
Saturday, 12 May 2018	9:01am	Sunday, 13 May 2018	9:00am	0	0
Sunday, 13 May 2018	9:01am	Monday, 14 May 2018	9:00am	0	0
Monday, 14 May 2018	9:01am	Tuesday, 15 May 2018	9:00am	0	0
Tuesday, 15 May 2018	9:01am	Wednesday, 16 May 2018	9:00am	0	0
Wednesday, 16 May 2018	9:01am	Thursday, 17 May 2018	9:00am	0	0
Thursday, 17 May 2018	9:01am	Friday, 18 May 2018	9:00am	8.8	0.4
Friday, 18 May 2018	9:01am	Saturday, 19 May 2018	9:00am	0.8	0.2
Saturday, 19 May 2018	9:01am	Sunday, 20 May 2018	9:00am	0.4	0.2
Sunday, 20 May 2018	9:01am	Monday, 21 May 2018	9:00am	0	0
Monday, 21 May 2018	9:01am	Tuesday, 22 May 2018	9:00am	0.2	0.2
Tuesday, 22 May 2018	9:01am	Wednesday, 23 May 2018	9:00am	0	0
Wednesday, 23 May 2018	9:01am	Thursday, 24 May 2018	9:00am	0	0
Thursday, 24 May 2018	9:01am	Friday, 25 May 2018	9:00am	5.2	0.4
Friday, 25 May 2018	9:01am	Saturday, 26 May 2018	9:00am	0	0
Saturday, 26 May 2018	9:01am	Sunday, 27 May 2018	9:00am	16.4	1
Sunday, 27 May 2018	9:01am	Monday, 28 May 2018	9:00am	0.8	0.2
Monday, 28 May 2018	9:01am	Tuesday, 29 May 2018	9:00am	6	0.4
Tuesday, 29 May 2018	9:01am	Wednesday, 30 May 2018	9:00am	1.8	0.2
Wednesday, 30 May 2018	9:01am	Thursday, 31 May 2018	9:00am	0.2	0.2
Thursday, 31 May 2018	9:01am	Friday, 1 June 2018	9:00am	0	0
Friday, 1 June 2018	9:01am	Saturday, 2 June 2018	9:00am	0	0
Saturday, 2 June 2018	9:01am	Sunday, 3 June 2018	9:00am	0	0
Sunday, 3 June 2018	9:01am	Monday, 4 June 2018	9:00am	0	0
Monday, 4 June 2018	9:01am	Tuesday, 5 June 2018	9:00am	1.6	0.2
Tuesday, 5 June 2018	9:01am	Wednesday, 6 June 2018	9:00am	4.4	0.4
Wednesday, 6 June 2018	9:01am	Thursday, 7 June 2018	9:00am	2.6	0.4
Thursday, 7 June 2018	9:01am	Friday, 8 June 2018	9:00am	33.4	1.2
Friday, 8 June 2018	9:01am	Saturday, 9 June 2018	9:00am	1	0.2
Saturday, 9 June 2018	9:01am	Sunday, 10 June 2018	9:00am	0.2	0.2
Sunday, 10 June 2018	9:01am	Monday, 11 June 2018	9:00am	17.6	1.2
Monday, 11 June 2018	9:01am	Tuesday, 12 June 2018	9:00am	0	0
Tuesday, 12 June 2018	9:01am	Wednesday, 13 June 2018	9:00am	0.2	0.2
Wednesday, 13 June 2018	9:01am	Thursday, 14 June 2018	9:00am	0.2	0.2
Thursday, 14 June 2018	9:01am	Friday, 15 June 2018	9:00am	0	0
Friday, 15 June 2018	9:01am	Saturday, 16 June 2018	9:00am	0	0
Saturday, 16 June 2018	9:01am	Sunday, 17 June 2018	9:00am	0	0
Sunday, 17 June 2018	9:01am	Monday, 18 June 2018	9:00am	0	0
Monday, 18 June 2018	9:01am	Tuesday, 19 June 2018	9:00am	0	0
Tuesday, 19 June 2018	9:01am	Wednesday, 20 June 2018	9:00am	0	0
Wednesday, 20 June 2018	9:01am	Thursday, 21 June 2018	9:00am	0	0
Thursday, 21 June 2018	9:01am	Friday, 22 June 2018	9:00am	0	0
Friday, 22 June 2018	9:01am	Saturday, 23 June 2018	9:00am	0.2	0.2
Saturday, 23 June 2018	9:01am	Sunday, 24 June 2018	9:00am	0.2	0.2
Sunday, 24 June 2018	9:01am	Monday, 25 June 2018	9:00am	0.2	0.2
Monday, 25 June 2018	9:01am	Tuesday, 26 June 2018	9:00am	0.2	0.2
Tuesday, 26 June 2018	9:01am	Wednesday, 27 June 2018	9:00am	0	0
Wednesday, 27 June 2018	9:01am	Thursday, 28 June 2018	9:00am	1.2	16.4
Thursday, 28 June 2018	9:01am	Friday, 29 June 2018	9:00am	0.4	8.6
Friday, 29 June 2018	9:01am	Saturday, 30 June 2018	9:00am	0.2	0.4
Saturday, 30 June 2018	9:01am	Sunday, 1 July 2018	9:00am	0.2	0.2
Sunday, 1 July 2018	9:01am	Monday, 2 July 2018	9:00am	0	0
Monday, 2 July 2018	9:01am	Tuesday, 3 July 2018	9:00am	0.2	0.2
Tuesday, 3 July 2018	9:01am	Wednesday, 4 July 2018	9:00am	0.4	1.6
Wednesday, 4 July 2018	9:01am	Thursday, 5 July 2018	9:00am	0.8	18.8
Thursday, 5 July 2018	9:01am	Friday, 6 July 2018	9:00am	0.6	7.4
Friday, 6 July 2018	9:01am	Saturday, 7 July 2018	9:00am	0.2	1.8
Saturday, 7 July 2018	9:01am	Sunday, 8 July 2018	9:00am	0.2	1.4
Sunday, 8 July 2018	9:01am	Monday, 9 July 2018	9:00am	0	0
Monday, 9 July 2018	9:01am	Tuesday, 10 July 2018	9:00am	0	0
Tuesday, 10 July 2018	9:01am	Wednesday, 11 July 2018	9:00am	0	0
Wednesday, 11 July 2018	9:01am	Thursday, 12 July 2018	9:00am	0.2	1
Thursday, 12 July 2018	9:01am	Friday, 13 July 2018	9:00am	0.2	1.4
Friday, 13 July 2018	9:01am	Saturday, 14 July 2018	9:00am	0.2	0.4
Saturday, 14 July 2018	9:01am	Sunday, 15 July 2018	9:00am	0	0
Sunday, 15 July 2018	9:01am	Monday, 16 July 2018	9:00am	0.2	0.2
Monday, 16 July 2018	9:01am	Tuesday, 17 July 2018	9:00am	0	0

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)
Tuesday, 17 July 2018	9:01am	Wednesday, 18 July 2018	9:00am	0	0
Wednesday, 18 July 2018	9:01am	Thursday, 19 July 2018	9:00am	0	0
Thursday, 19 July 2018	9:01am	Friday, 20 July 2018	9:00am	0	0
Friday, 20 July 2018	9:01am	Saturday, 21 July 2018	9:00am	0	0
Saturday, 21 July 2018	9:01am	Sunday, 22 July 2018	9:00am	0	0
Sunday, 22 July 2018	9:01am	Monday, 23 July 2018	9:00am	0	0
Monday, 23 July 2018	9:01am	Tuesday, 24 July 2018	9:00am	0	0
Tuesday, 24 July 2018	9:01am	Wednesday, 25 July 2018	9:00am	0	0
Wednesday, 25 July 2018	9:01am	Thursday, 26 July 2018	9:00am	0	0
Thursday, 26 July 2018	9:01am	Friday, 27 July 2018	9:00am	0	0
Friday, 27 July 2018	9:01am	Saturday, 28 July 2018	9:00am	0	0
Saturday, 28 July 2018	9:01am	Sunday, 29 July 2018	9:00am	0	0
Sunday, 29 July 2018	9:01am	Monday, 30 July 2018	9:00am	0.2	0.2
Monday, 30 July 2018	9:01am	Tuesday, 31 July 2018	9:00am	0.2	0.8
Tuesday, 31 July 2018	9:01am	Wednesday, 1 August 2018	9:00am	0	0
Wednesday, 1 August 2018	9:01am	Thursday, 2 August 2018	9:00am	0	0
Thursday, 2 August 2018	9:01am	Friday, 3 August 2018	9:00am	0	0
Friday, 3 August 2018	9:01am	Saturday, 4 August 2018	9:00am	0.2	0.2
Saturday, 4 August 2018	9:01am	Sunday, 5 August 2018	9:00am	0	0
Sunday, 5 August 2018	9:01am	Monday, 6 August 2018	9:00am	0	0
Monday, 6 August 2018	9:01am	Tuesday, 7 August 2018	9:00am	0	0
Tuesday, 7 August 2018	9:01am	Wednesday, 8 August 2018	9:00am	0.2	0.2
Wednesday, 8 August 2018	9:01am	Thursday, 9 August 2018	9:00am	0	0
Thursday, 9 August 2018	9:01am	Friday, 10 August 2018	9:00am	0	0
Friday, 10 August 2018	9:01am	Saturday, 11 August 2018	9:00am	0	0
Saturday, 11 August 2018	9:01am	Sunday, 12 August 2018	9:00am	0	0
Sunday, 12 August 2018	9:01am	Monday, 13 August 2018	9:00am	0	0
Monday, 13 August 2018	9:01am	Tuesday, 14 August 2018	9:00am	0	0
Tuesday, 14 August 2018	9:01am	Wednesday, 15 August 2018	9:00am	0	0
Wednesday, 15 August 2018	9:01am	Thursday, 16 August 2018	9:00am	0	0
Thursday, 16 August 2018	9:01am	Friday, 17 August 2018	9:00am	0	0
Friday, 17 August 2018	9:01am	Saturday, 18 August 2018	9:00am	0	0
Saturday, 18 August 2018	9:01am	Sunday, 19 August 2018	9:00am	0	0
Sunday, 19 August 2018	9:01am	Monday, 20 August 2018	9:00am	0	0
Monday, 20 August 2018	9:01am	Tuesday, 21 August 2018	9:00am	0	0
Tuesday, 21 August 2018	9:01am	Wednesday, 22 August 2018	9:00am	0	0
Wednesday, 22 August 2018	9:01am	Thursday, 23 August 2018	9:00am	0	0
Thursday, 23 August 2018	9:01am	Friday, 24 August 2018	9:00am	0	0
Friday, 24 August 2018	9:01am	Saturday, 25 August 2018	9:00am	0	0
Saturday, 25 August 2018	9:01am	Sunday, 26 August 2018	9:00am	0.6	8.8
Sunday, 26 August 2018	9:01am	Monday, 27 August 2018	9:00am	0.6	5.4
Monday, 27 August 2018	9:01am	Tuesday, 28 August 2018	9:00am	0.4	12.2
Tuesday, 28 August 2018	9:01am	Wednesday, 29 August 2018	9:00am	0.4	1.6
Wednesday, 29 August 2018	9:01am	Thursday, 30 August 2018	9:00am	0.2	0.2
Thursday, 30 August 2018	9:01am	Friday, 31 August 2018	9:00am	0	0
Friday, 31 August 2018	9:01am	Saturday, 1 September 2018	9:00am	0	0
Saturday, 1 September 2018	9:01am	Sunday, 2 September 2018	9:00am	0.2	3.8
Sunday, 2 September 2018	9:01am	Monday, 3 September 2018	9:00am	0	0
Monday, 3 September 2018	9:01am	Tuesday, 4 September 2018	9:00am	0.8	12
Tuesday, 4 September 2018	9:01am	Wednesday, 5 September 2018	9:00am	0.8	29.8
Wednesday, 5 September 2018	9:01am	Thursday, 6 September 2018	9:00am	0.8	17.4
Thursday, 6 September 2018	9:01am	Friday, 7 September 2018	9:00am	0.8	7
Friday, 7 September 2018	9:01am	Saturday, 8 September 2018	9:00am	0.4	4.8
Saturday, 8 September 2018	9:01am	Sunday, 9 September 2018	9:00am	0.2	0.8
Sunday, 9 September 2018	9:01am	Monday, 10 September 2018	9:00am	0	0
Monday, 10 September 2018	9:01am	Tuesday, 11 September 2018	9:00am	0.2	0.2
Tuesday, 11 September 2018	9:01am	Wednesday, 12 September 2018	9:00am	0	0
Wednesday, 12 September 2018	9:01am	Thursday, 13 September 2018	9:00am	0	0
Thursday, 13 September 2018	9:01am	Friday, 14 September 2018	9:00am	0	0
Friday, 14 September 2018	9:01am	Saturday, 15 September 2018	9:00am	0	0
Saturday, 15 September 2018	9:01am	Sunday, 16 September 2018	9:00am	0	0
Sunday, 16 September 2018	9:01am	Monday, 17 September 2018	9:00am	0	0
Monday, 17 September 2018	9:01am	Tuesday, 18 September 2018	9:00am	0.2	1.2
Tuesday, 18 September 2018	9:01am	Wednesday, 19 September 2018	9:00am	0.2	0.2
Wednesday, 19 September 2018	9:01am	Thursday, 20 September 2018	9:00am	0	0
Thursday, 20 September 2018	9:01am	Friday, 21 September 2018	9:00am	0	0
Friday, 21 September 2018	9:01am	Saturday, 22 September 2018	9:00am	0.4	5.6
Saturday, 22 September 2018	9:01am	Sunday, 23 September 2018	9:00am	0	0
Sunday, 23 September 2018	9:01am	Monday, 24 September 2018	9:00am	0	0
Monday, 24 September 2018	9:01am	Tuesday, 25 September 2018	9:00am	0.2	0.4
Tuesday, 25 September 2018	9:01am	Wednesday, 26 September 2018	9:00am	1	10.8
Wednesday, 26 September 2018	9:01am	Thursday, 27 September 2018	9:00am	0.2	0.2
Thursday, 27 September 2018	9:01am	Friday, 28 September 2018	9:00am	0.2	1.2
Friday, 28 September 2018	9:01am	Saturday, 29 September 2018	9:00am	0	0
Saturday, 29 September 2018	9:01am	Sunday, 30 September 2018	9:00am	0	0
Sunday, 30 September 2018	9:01am	Monday, 1 October 2018	9:00am	0.8	2.6
Monday, 1 October 2018	9:01am	Tuesday, 2 October 2018	9:00am	0	0
Tuesday, 2 October 2018	9:01am	Wednesday, 3 October 2018	9:00am	0	0
Wednesday, 3 October 2018	9:01am	Thursday, 4 October 2018	9:00am	0	0
Thursday, 4 October 2018	9:01am	Friday, 5 October 2018	9:00am	0	0
Friday, 5 October 2018	9:01am	Saturday, 6 October 2018	9:00am	0	0
Saturday, 6 October 2018	9:01am	Sunday, 7 October 2018	9:00am	0.2	0.6
Sunday, 7 October 2018	9:01am	Monday, 8 October 2018	9:00am	0.2	0.8
Monday, 8 October 2018	9:01am	Tuesday, 9 October 2018	9:00am	0	0
Tuesday, 9 October 2018	9:01am	Wednesday, 10 October 2018	9:00am	0	0
Wednesday, 10 October 2018	9:01am	Thursday, 11 October 2018	9:00am	0.2	0.2
Thursday, 11 October 2018	9:01am	Friday, 12 October 2018	9:00am	0.8	22.6
Friday, 12 October 2018	9:01am	Saturday, 13 October 2018	9:00am	1	26.8
Saturday, 13 October 2018	9:01am	Sunday, 14 October 2018	9:00am	0.4	8.2
Sunday, 14 October 2018	9:01am	Monday, 15 October 2018	9:00am	0.8	34
Monday, 15 October 2018	9:01am	Tuesday, 16 October 2018	9:00am	1.2	44.2
Tuesday, 16 October 2018	9:01am	Wednesday, 17 October 2018	9:00am	0.4	9.8
Wednesday, 17 October 2018	9:01am	Thursday, 18 October 2018	9:00am	1.2	40.4
Thursday, 18 October 2018	9:01am	Friday, 19 October 2018	9:00am	0.4	1.2
Friday, 19 October 2018	9:01am	Saturday, 20 October 2018	9:00am	0.2	0.2
Saturday, 20 October 2018	9:01am	Sunday, 21 October 2018	9:00am	0	0
Sunday, 21 October 2018	9:01am	Monday, 22 October 2018	9:00am	0.2	0.2
Monday, 22 October 2018	9:01am	Tuesday, 23 October 2018	9:00am	0.6	8.8
Tuesday, 23 October 2018	9:01am	Wednesday, 24 October 2018	9:00am	0	0
Wednesday, 24 October 2018	9:01am	Thursday, 25 October 2018	9:00am	0.2	0.2
Thursday, 25 October 2018	9:01am	Friday, 26 October 2018	9:00am	0	0
Friday, 26 October 2018	9:01am	Saturday, 27 October 2018	9:00am	1	4.6
Saturday, 27 October 2018	9:01am	Sunday, 28 October 2018	9:00am	0	0
Sunday, 28 October 2018	9:01am	Monday, 29 October 2018	9:00am	0	0

Sampling Point: Rain gauge
 Licence Cape Byron Management Pty Ltd
 Location Broadwater Cogeneration Power Plant
 EPL No 20425
 Parameter/s Monitored Rainfall
 Frequency & Method Continuous Auto Sampler



TIPPING GAUGE CONTINUOUS RAINFALL MONITORING					
Period From		Period To		Daily Rain	
Date	Time	Date	Time	Total (mm)	Max Intensity (mm/min)
Monday, 29 October 2018	9:01am	Tuesday, 30 October 2018	9:00am	0.2	1.2
Tuesday, 30 October 2018	9:01am	Wednesday, 31 October 2018	9:00am	0	0
Wednesday, 31 October 2018	9:01am	Thursday, 1 November 2018	9:00am	0	0
Thursday, 1 November 2018	9:01am	Friday, 2 November 2018	9:00am	0	0
Friday, 2 November 2018	9:01am	Saturday, 3 November 2018	9:00am	0	0
Saturday, 3 November 2018	9:01am	Sunday, 4 November 2018	9:00am	0	0
Sunday, 4 November 2018	9:01am	Monday, 5 November 2018	9:00am	0	0
Monday, 5 November 2018	9:01am	Tuesday, 6 November 2018	9:00am	0	0
Tuesday, 6 November 2018	9:01am	Wednesday, 7 November 2018	9:00am	0	0
Wednesday, 7 November 2018	9:01am	Thursday, 8 November 2018	9:00am	0	0
Thursday, 8 November 2018	9:01am	Friday, 9 November 2018	9:00am	0.2	0.6
Friday, 9 November 2018	9:01am	Saturday, 10 November 2018	9:00am	0.2	0.4
Saturday, 10 November 2018	9:01am	Sunday, 11 November 2018	9:00am	0	0
Sunday, 11 November 2018	9:01am	Monday, 12 November 2018	9:00am	1	27
Monday, 12 November 2018	9:01am	Tuesday, 13 November 2018	9:00am	0	0
Tuesday, 13 November 2018	9:01am	Wednesday, 14 November 2018	9:00am	0.2	0.2
Wednesday, 14 November 2018	9:01am	Thursday, 15 November 2018	9:00am	0	0
Thursday, 15 November 2018	9:01am	Friday, 16 November 2018	9:00am	0	0
Friday, 16 November 2018	9:01am	Saturday, 17 November 2018	9:00am	0	0
Saturday, 17 November 2018	9:01am	Sunday, 18 November 2018	9:00am	0	0
Sunday, 18 November 2018	9:01am	Monday, 19 November 2018	9:00am	0	0
Monday, 19 November 2018	9:01am	Tuesday, 20 November 2018	9:00am	1.2	17.2
Tuesday, 20 November 2018	9:01am	Wednesday, 21 November 2018	9:00am	0.4	1.8
Wednesday, 21 November 2018	9:01am	Thursday, 22 November 2018	9:00am	0.2	0.2
Thursday, 22 November 2018	9:01am	Friday, 23 November 2018	9:00am	0	0
Friday, 23 November 2018	9:01am	Saturday, 24 November 2018	9:00am	0.8	5.4
Saturday, 24 November 2018	9:01am	Sunday, 25 November 2018	9:00am	1.4	9.8
Sunday, 25 November 2018	9:01am	Monday, 26 November 2018	9:00am	0	0
Monday, 26 November 2018	9:01am	Tuesday, 27 November 2018	9:00am	0	0
Tuesday, 27 November 2018	9:01am	Wednesday, 28 November 2018	9:00am	0	0
Wednesday, 28 November 2018	9:01am	Thursday, 29 November 2018	9:00am	0	0
Thursday, 29 November 2018	9:01am	Friday, 30 November 2018	9:00am	0.6	3.2
Friday, 30 November 2018	9:01am	Saturday, 1 December 2018	9:00am	1.4	7
Saturday, 1 December 2018	9:01am	Sunday, 2 December 2018	9:00am	0	0
Sunday, 2 December 2018	9:01am	Monday, 3 December 2018	9:00am	0	0
Monday, 3 December 2018	9:01am	Tuesday, 4 December 2018	9:00am	0	0
Tuesday, 4 December 2018	9:01am	Wednesday, 5 December 2018	9:00am	0	0
Wednesday, 5 December 2018	9:01am	Thursday, 6 December 2018	9:00am	0	0
Thursday, 6 December 2018	9:01am	Friday, 7 December 2018	9:00am	0	0
Friday, 7 December 2018	9:01am	Saturday, 8 December 2018	9:00am	0	0
Saturday, 8 December 2018	9:01am	Sunday, 9 December 2018	9:00am	0.4	2.4
Sunday, 9 December 2018	9:01am	Monday, 10 December 2018	9:00am	0.2	0.6
Monday, 10 December 2018	9:01am	Tuesday, 11 December 2018	9:00am	0	0
Tuesday, 11 December 2018	9:01am	Wednesday, 12 December 2018	9:00am	0	0
Wednesday, 12 December 2018	9:01am	Thursday, 13 December 2018	9:00am	0	0
Thursday, 13 December 2018	9:01am	Friday, 14 December 2018	9:00am	0	0
Friday, 14 December 2018	9:01am	Saturday, 15 December 2018	9:00am	0.6	0.2
Saturday, 15 December 2018	9:01am	Sunday, 16 December 2018	9:00am	0	0
Sunday, 16 December 2018	9:01am	Monday, 17 December 2018	9:00am	1.2	0.2
Monday, 17 December 2018	9:01am	Tuesday, 18 December 2018	9:00am	0	0
Tuesday, 18 December 2018	9:01am	Wednesday, 19 December 2018	9:00am	2.6	0.4
Wednesday, 19 December 2018	9:01am	Thursday, 20 December 2018	9:00am	4.4	0.2
Thursday, 20 December 2018	9:01am	Friday, 21 December 2018	9:00am	0.2	0.2
Friday, 21 December 2018	9:01am	Saturday, 22 December 2018	9:00am	2.8	0.4
Saturday, 22 December 2018	9:01am	Sunday, 23 December 2018	9:00am	7.2	1
Sunday, 23 December 2018	9:01am	Monday, 24 December 2018	9:00am	6	0.6
Monday, 24 December 2018	9:01am	Tuesday, 25 December 2018	9:00am	12.6	2.2
Tuesday, 25 December 2018	9:01am	Wednesday, 26 December 2018	9:00am	0.4	0.2
Wednesday, 26 December 2018	9:01am	Thursday, 27 December 2018	9:00am	0.2	0.2
Thursday, 27 December 2018	9:01am	Friday, 28 December 2018	9:00am	0	0
Friday, 28 December 2018	9:01am	Saturday, 29 December 2018	9:00am	0	0
Saturday, 29 December 2018	9:01am	Sunday, 30 December 2018	9:00am	0	0
Sunday, 30 December 2018	9:01am	Monday, 31 December 2018	9:00am	0	0
Monday, 31 December 2018	9:01am	Tuesday, 1 January 2019	9:00am	0	0

Licencee Cape Byron Management Pty Ltd
 Location Broadwater Cogeneration Power Plant
 EPL No 20425



CORRECTIONS LOG

Date Sampled	Monitoring Point	Pollutant/Parameter	Original Data	Corrected Data	Date Corrected	Date Originally Published	Reason
24-Apr-17	EPA Point 8	CW outlet minimum temp	0.0	21.0	07-Jun-17	15-May-17	The DCS online monitoring system captured data points when the plant was shutdown that was incorrectly used to obtain values
24-Apr-17	EPA Point 8	CW outlet average temp	30.0	32.0	07-Jun-17	15-May-17	The DCS online monitoring system captured data points when the plant was shutdown that was incorrectly used to obtain values
5-Dec-16	EPA Point 9	CW inlet minimum temp	18.6	26.8	13-Jun-17	23-Jan-17	The DCS online monitoring system captured data points when the plant was shutdown that was incorrectly used to obtain values
5-Dec-16	EPA Point 9	CW inlet average temp	28.8	27.8	13-Jun-17	23-Jan-17	The DCS online monitoring system captured data points when the plant was shutdown that was incorrectly used to obtain values
5-Dec-16	EPA Point 9	CW inlet maximum temp	48.0	29.1	13-Jun-17	23-Jan-17	The DCS online monitoring system captured data points when the plant was shutdown that was incorrectly used to obtain values
2-Jan-17	EPA Point 9	CW inlet minimum temp	23.0	25.1	13-Jun-17	23-Jan-17	The DCS online monitoring system captured data points when the plant was shutdown that was incorrectly used to obtain values
2-Jan-17	EPA Point 9	CW inlet maximum temp	45.7	30.6	13-Jun-17	23-Jan-17	The DCS online monitoring system captured data points when the plant was shutdown that was incorrectly used to obtain values
13-Mar-17	EPA Point 9	CW inlet minimum temp	23.5	20.2	13-Jun-17	13-Apr-17	The DCS online monitoring system captured data points when the plant was shutdown that was incorrectly used to obtain values
13-Mar-17	EPA Point 9	CW inlet average temp	25.1	25.7	13-Jun-17	13-Apr-17	The DCS online monitoring system captured data points when the plant was shutdown that was incorrectly used to obtain values
13-Mar-17	EPA Point 9	CW inlet maximum temp	44.2	26.5	13-Jun-17	13-Apr-17	The DCS online monitoring system captured data points when the plant was shutdown that was incorrectly used to obtain values