



Environmental Monitoring Report

Broadwater Power Plant 117 Pacific Highway Broadwater NSW

Licencee Cape Byron Management Pty Ltd
Address 117 Pacific Highway Broadwater NSW
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					
Report Number			AE 13192	AE 13741	
Sampling Date			16-Jul-20	15-Jul-21	
Date Received			25-Aug-20	02-Aug-21	
Date Published			27-Aug-20	13-Aug-21	
Measured Parameters dry @ STP and corrected to 7% O ₂	Units	Concentration Limit			
Average stack gas temperature	°C	Not Applicable	108.0	88.0	
Average velocity at sampling plane	m/s	Not Applicable	8.1	9.7	
Gas Volumetric Flowrate	m ³ /sec	Not Applicable	20.9	47.8	
Dry Gas Density	kg/m ³	Not Applicable	1.3	1.3	
Molecular Weight of Stack Gases	g/g mole	Not Applicable	30.1	30.1	
Moisture content	%	Not Applicable	26.7	20.1	
Concentration of carbon dioxide	%	Not Applicable	10.6	11.0	
Total Solid Particles	mg/m ³	100	70.7	42.7	
Sulphuric Acid Mist & Sulphur Trioxide as SO ₃	mg/m ³	12	5.6	11.3	
Nitrogen Oxides (NOx)	mg/m ³	500	368.0	270.0	

Sampling Point:

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

Monitoring Point 2 - No 1 Cogeneration Boiler Stack Emissions

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

**RESULTS TABLE**

	AE 13192	AE 13401	AE 13475	AE 13616	AE 13741	AE 13901
Report Number	16-Jul-20	10-Nov-20	09-Feb-21	07-Apr-21	15-Jul-21	25-Oct-21
Sampling Date	25-Aug-20	23-Nov-20	02-Mar-21	26-May-21	02-Aug-21	09-Nov-21
Date Received	27-Aug-20	03-Dec-20	12-Mar-21	02-Jun-21	13-Aug-21	23-Nov-21
Date Published						

Measured Parameters dry @ STP and corrected to 7% O ₂	Units	Concentration Limit						
Average stack gas temperature	°C	Not Applicable	67.0	68.0	61.0	63.0	66.0	63.0
Average velocity at sampling plane	m/s	Not Applicable	14.8	15.7	13.4	17.9	19.7	17.1
Dry Gas Volumetric Flowrate	m ³ /sec	Not Applicable	58.1	65.2	57.5	77.8	124.8	72.5
Dry Gas Density	kg/m ³	Not Applicable	1.3	1.4	1.3	1.3	1.4	1.4
Molecular Weight of Stack Gases	g/g mole	Not Applicable	30.1	30.2	30.0	29.8	30.2	30.3
Moisture content	%	Not Applicable	22.8	18.8	17.7	15.9	20.0	17.7
Concentration of carbon dioxide	%	Not Applicable	10.7	11.1	9.7	7.7	11.1	11.7
Total Solid Particles	mg/m ³	100.0	15.6	41.1	24.9	48.3	17.0	54.5
Sulphuric Acid Mist & Sulphur Trioxide as SO ₃	mg/m ³	12.0	7.0	3.5	1.8	3.5	5.8	0.2
Nitrogen Oxides (NO _x)	mg/m ³	500.0	325.0	300.0	146.0	93.6	228.0	141.0

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: 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
2-Jan-21	14-Jan-21	20-Jan-21	7.8	
8-Jan-21	26-Feb-21	26-Feb-21	29.4	
14-Jan-21	26-Feb-21	26-Feb-21	11.5	
20-Jan-21	26-Feb-21	26-Feb-21	11.6	
26-Jan-21	26-Feb-21	26-Feb-21	25.9	
1-Feb-21	15-Mar-21	8-Apr-21	17.9	Sample paper went two cycles
7-Feb-21	15-Mar-21	8-Apr-21	17.9	
13-Feb-21	15-Mar-21	8-Apr-21	13.4	
19-Feb-21	15-Mar-21	8-Apr-21	20.1	
25-Feb-21	15-Mar-21	8-Apr-21	20.1	Sample paper went two cycles
3-Mar-21	20-Apr-21	22-Apr-21	23.8	
9-Mar-21	20-Apr-21	22-Apr-21	9.5	
15-Mar-21	20-Apr-21	22-Apr-21	10.3	Sample paper went two cycles
21-Mar-21	20-Apr-21	22-Apr-21	10.3	
27-Mar-21	20-Apr-21	22-Apr-21	13.4	
2-Apr-21	20-Apr-21	22-Apr-21	14.6	
8-Apr-21	21-May-21	2-Jun-21	7.5	
14-Apr-21	21-May-21	2-Jun-21	10.7	
20-Apr-21	21-May-21	2-Jun-21	9.9	
26-Apr-21	21-May-21	2-Jun-21	9.9	
2-May-21	21-May-21	2-Jun-21	10.7	
8-May-21	5-Jul-21	30-Jul-21	11.0	
14-May-21	5-Jul-21	30-Jul-21	9.5	
20-May-21	5-Jul-21	30-Jul-21	13.3	
26-May-21	5-Jul-21	30-Jul-21	6.3	
1-Jun-21	5-Jul-21	30-Jul-21	7.1	
7-Jun-21	5-Jul-21	30-Jul-21	11.4	
13-Jun-21	5-Jul-21	30-Jul-21	11.8	
19-Jun-21	9-Aug-21	31-Jul-21	4.8	
25-Jun-21	9-Aug-21	13-Aug-21	5	Sample paper went two cycles
1-Jul-21	9-Aug-21	13-Aug-21	5	
7-Jul-21	9-Aug-21	13-Aug-21	16	
13-Jul-21	9-Aug-21	13-Aug-21	8	
19-Jul-21	9-Aug-21	13-Aug-21	10	
25-Jul-21	9-Aug-21	13-Aug-21	6	
31-Jul-21	9-Aug-21	13-Aug-21	12	
6-Aug-21	15-Sep-21	23-Sep-21	13	
12-Aug-21	15-Sep-21	23-Sep-21	15	
18-Aug-21	15-Sep-21	23-Sep-21	8	
24-Aug-21	15-Sep-21	23-Sep-21	9	
30-Aug-21	15-Sep-21	23-Sep-21	12	
5-Sep-21	20-Oct-21	22-Oct-21	7.4	
11-Sep-21	20-Oct-21	22-Oct-21	13.6	
17-Sep-21	20-Oct-21	22-Oct-21	13.6	Sample paper went two cycles
23-Sep-21	20-Oct-21	22-Oct-21	9.8	
29-Sep-21	20-Oct-21	22-Oct-21	11.4	
5-Oct-21	20-Oct-21	22-Oct-21	14.8	
11-Oct-21	20-Dec-21	22-Dec-21	13.4	
17-Oct-21	20-Dec-21	22-Dec-21	20.3	
23-Oct-21	20-Dec-21	22-Dec-21	10.6	
29-Oct-21	20-Dec-21	22-Dec-21	21.1	
4-Nov-21	20-Dec-21	22-Dec-21	10.6	
10-Nov-21	20-Dec-21	22-Dec-21	12.7	
16-Nov-21	20-Dec-21	22-Dec-21	10.2	
22-Nov-21	20-Dec-21	22-Dec-21	8.3	
28-Nov-21	20-Dec-21	22-Dec-21	7.0	
4-Dec-21	20-Dec-21	22-Dec-21	6.3	
10-Dec-21	18-Jan-22	28-Jan-22	8.5	
16-Dec-21	18-Jan-22	28-Jan-22	11.8	
22-Dec-21	18-Jan-22	28-Jan-22	9.7	
28-Dec-21	18-Jan-22	28-Jan-22	11.0	
3-Jan-22	18-Jan-22	28-Jan-22	10.8	
9-Jan-22	18-Jan-22	28-Jan-22	8.9	
15-Jan-22	NR	28-Feb-22	N/A	28 Feb - Sampler flood effected
21-Jan-22	NR	28-Feb-22	N/A	Sampler flood effected new unit on order
27-Jan-22	NR	28-Feb-22	N/A	Sampler flood effected new unit on order
2-Feb-22	NR	28-Feb-22	N/A	Sampler flood effected new unit on order
8-Feb-22	NR	28-Feb-22	N/A	Sampler flood effected new unit on order
14-Feb-22	NR	28-Feb-22	N/A	Sampler flood effected new unit on order
20-Feb-22	NR	28-Feb-22	N/A	Sampler flood effected new unit on order
26-Feb-22	NR	28-Feb-22	N/A	Sampler flood effected new unit on order
4-Mar-22	NR	31-Mar-22	N/A	Sampler flood effected new unit on order
10-Mar-22	NR	31-Mar-22	N/A	Sampler flood effected new unit on order
16-Mar-22	NR	31-Mar-22	N/A	Sampler flood effected new unit on order
22-Mar-22	NR	31-Mar-22	N/A	Sampler flood effected new unit on order
28-Mar-22	NR	31-Mar-22	N/A	Sampler flood effected new unit on order
3-Apr-22	NR	30-Apr-22	N/A	Sampler flood effected new unit on order
9-Apr-22	NR	30-Apr-22	N/A	Sampler flood effected new unit on order
15-Apr-22	NR	30-Apr-22	N/A	Sampler flood effected new unit on order
21-Apr-22	NR	30-Apr-22	N/A	Sampler flood effected new unit on order
27-Apr-22	NR	30-Apr-22	N/A	Sampler flood effected new unit on order

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 Continous 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
5-Jan-21	29-Jan-21	25-Jan-21	1.64	
4-Feb-21	12-Feb-21	26-Feb-21	0.41	
5-Mar-21	12-Mar-21	8-Apr-21	0.73	
7-Apr-21	16-Apr-21	22-Apr-21	0.84	
5-May-21	18-May-21	20-May-21	0.00	
2-Jun-21	4-Jun-21	17-Jun-21	0.06	
2-Jul-21	9-Jul-21	16-Jul-21	0.59	Fine org. matter
5-Aug-21	11-Aug-21	13-Aug-21	0.77	
7-Sep-21	10-Sep-21	23-Sep-21	1.64	Large org. matter
7-Oct-21	19-Oct-21	22-Oct-21	0.80	Fine org. matter
7-Dec-21	15-Dec-21	15-Dec-21	2.20	Bug, large org. matter
1-Jan-22	21-Jan-22	28-Jan-22	1.54	Fine org. matter
1-Feb-22	NR	28-Feb-22	N/A	Bottles flooded
1-Mar-22	NR	31-Mar-22	N/A	Bottles flood damaged and not serviceable, new bottles set 20/04/2022
1-Apr-22	NR	30-Apr-22	N/A	New bottles placed on 20/4/22

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
5-Jan-21	29-Jan-21	25-Jan-21	1.28	
4-Feb-21	12-Feb-21	26-Feb-21	0.18	Spider
5-Mar-21	12-Mar-21	8-Apr-21	0.90	
7-Apr-21	16-Apr-21	22-Apr-21	0.79	
5-May-21	18-May-21	20-May-21	0.56	
2-Jun-21	4-Jun-21	17-Jun-21	0.17	
2-Jul-21	9-Jul-21	16-Jul-21	0.97	Fine org. matter
5-Aug-21	11-Aug-21	13-Aug-21	1.02	
7-Sep-21	10-Sep-21	23-Sep-21	1.49	Large org. matter
7-Oct-21	19-Oct-21	22-Oct-21	1.01	Fine org. matter
7-Dec-21	15-Dec-21	15-Dec-21	0.59	Dirt, large org. matter
1-Jan-22	21-Jan-22	28-Jan-22	1.11	
01-Feb-22	NR	NR	N/A	Bottles flooded
				Bottles flood damaged and not serviceable, new bottles set 20/04/2022
01-Mar-22	NR	NR	N/A	
1-Apr-22	NR	30-Apr-22	N/A	New bottles placed on 20/4/22

Sampling Point: Monitoring Point 5 - Ambient Air Monitoring
 Licence 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
5-Jan-21	29-Jan-21	25-Jan-21	1.15	
4-Feb-21	12-Feb-21	26-Feb-21	1.61	
5-Mar-21	12-Mar-21	8-Apr-21	1.85	
7-Apr-21	16-Apr-21	22-Apr-21	1.15	
5-May-21	18-May-21	20-May-21	0.71	
2-Jun-21	4-Jun-21	17-Jun-21	0.52	Spiders
2-Jul-21	9-Jul-21	16-Jul-21	1.90	Fine org. matter
5-Aug-21	11-Aug-21	13-Aug-21	1.06	
7-Sep-21	10-Sep-21	23-Sep-21	2.39	Fine org. matter
7-Oct-21	19-Oct-21	22-Oct-21	1.87	Fine org. matter
7-Dec-21	15-Dec-21	15-Dec-21	3.66	Fine org. matter
1-Jan-22	21-Jan-22	28-Jan-22	10.20	cloudy, fine org. matter
01-Feb-22	NR	NR	N/A	Bottles flooded
01-Mar-22	NR	NR	N/A	Bottles flood damaged and not serviceable, new bottles set 20/04/2022
1-Apr-22	NR	30-Apr-22	N/A	New bottles placed on 20/4/22

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	
28-Dec-20	10-Jan-21	20-Jan-21	No Data	No Data	No Data	Boiler Not Operating
11-Jan-21	24-Jan-21	29-Jan-21	No Data	No Data	No Data	Boiler Not Operating
25-Jan-21	7-Feb-21	10-Feb-21	No Data	No Data	No Data	Boiler Not Operating
8-Feb-21	21-Feb-21	26-Feb-21	No Data	No Data	No Data	Boiler Not Operating
22-Feb-21	7-Mar-21	12-Mar-21	No Data	No Data	No Data	Boiler Not Operating
8-Mar-21	21-Mar-21	8-Apr-21	No Data	No Data	No Data	Boiler Not Operating
22-Mar-21	4-Apr-21	8-Apr-21	No Data	No Data	No Data	Boiler Not Operating
5-Apr-21	18-Apr-21	22-Apr-21	No Data	No Data	No Data	Boiler Not Operating
19-Apr-21	2-May-21	6-May-21	No Data	No Data	No Data	Boiler Not Operating
3-May-21	16-May-21	20-May-21	No Data	No Data	No Data	Boiler Not Operating
17-May-21	30-May-21	2-Jun-21	No Data	No Data	No Data	Boiler Not Operating
31-May-21	13-Jun-21	17-Jun-21	0.00	20.58	19.22	Boiler Operational 7/6/2021
14-Jun-21	27-Jun-21	2-Jul-21	0.00	17.72	14.37	
28-Jun-21	11-Jul-21	16-Jul-21	0.00	21.00	13.02	
12-Jul-21	25-Jul-21	30-Jul-21	1.94	21.00	8.07	
26-Jul-21	8-Aug-21	13-Aug-21	0.00	21.00	11.09	
9-Aug-21	22-Aug-21	27-Aug-21	0.00	21.00	8.45	
23-Aug-21	5-Sep-21	9-Sep-21	0.00	21.00	10.67	Boiler offline 29 and 30/08/2021
6-Sep-21	19-Sep-21	23-Sep-21	3.55	21.00	11.44	
20-Sep-21	3-Oct-21	8-Oct-21	2.77	21.00	10.06	
4-Oct-21	17-Oct-21	22-Oct-21	3.73	21.00	12.11	Boiler offline from 9/10-10/10 then 14/10 -17/10
18-Oct-21	31-Oct-21	5-Nov-21	2.81	21.00	10.58	Boiler offline 18/10/21 to 24/10/21
1-Nov-21	14-Nov-21	9-Dec-21	3.43	21.00	9.97	Boiler Shutdown 9/11/2021
15-Nov-21	28-Nov-21	9-Dec-21	No Data	No Data	No Data	Boiler Not Operating
29-Nov-21	12-Dec-21	15-Dec-21	No Data	No Data	No Data	Boiler Not Operating
13-Dec-21	26-Dec-21	22-Dec-21	No Data	No Data	No Data	Boiler Not Operating
27-Dec-21	9-Jan-22	14-Jan-22	No Data	No Data	No Data	Boiler Not Operating
10-Jan-22	23-Jan-22	24-Jan-22	No Data	No Data	No Data	Boiler Not Operating
24-Jan-22	6-Feb-22	7-Feb-22	No Data	No Data	No Data	Boiler Not Operating
7-Feb-22	20-Feb-22	21-Feb-22	No Data	No Data	No Data	Boiler Not Operating
21-Feb-22	6-Mar-22	25-Feb-22	No Data	No Data	No Data	Boiler damaged during flood event
7-Mar-22	20-Mar-22	31-Mar-22	No Data	No Data	No Data	Boiler damaged during flood event
21-Mar-22	3-Apr-22	31-Mar-22	No Data	No Data	No Data	Boiler damaged during flood event
4-Apr-22	17-Apr-22	30-Apr-22	No Data	No Data	No Data	Boiler damaged during flood event
18-Apr-22	1-May-22	30-Apr-22	No Data	No Data	No Data	Boiler damaged during flood event

Sampling Point: Monitoring Point 6 - O₂ Monitoring No 1 Cogeneration Boiler
 Licence: 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		Date Published	Oxygen (%)			Notes
Date Start	Date Finish		Minimum Value	Mean Value	Maximum Value	
28-Dec-20	10-Jan-21	20-Jan-21	2.10	14.10	21.60	Boiler Online 5/01/21
11-Jan-21	24-Jan-21	29-Jan-21	2.90	7.26	21.10	
25-Jan-21	7-Feb-21	10-Feb-21	1.80	6.43	15.20	
8-Feb-21	21-Feb-21	26-Feb-21	1.40	6.94	21.20	
22-Feb-21	7-Mar-21	12-Mar-21	0.00	5.71	21.00	
8-Mar-21	21-Mar-21	8-Apr-21	1.80	8.01	21.40	
22-Mar-21	4-Apr-21	8-Apr-21	2.30	8.07	21.20	
5-Apr-21	18-Apr-21	22-Apr-21	3.20	7.34	21.30	
19-Apr-21	2-May-21	6-May-21	2.30	9.05	21.30	Boiler Offline 01/05/21
3-May-21	16-May-21	20-May-21	No Data	No Data	No Data	Boiler Not Operating
17-May-21	30-May-21	2-Jun-21	0.00	7.01	21.40	Boiler Offline 17/05/21 to 24/05/21
31-May-21	13-Jun-21	17-Jun-21	0.40	5.40	21.10	
14-Jun-21	27-Jun-21	2-Jul-21	0.20	3.99	14.10	
28-Jun-21	11-Jul-21	16-Jul-21	0.00	7.10	21.30	
12-Jul-21	25-Jul-21	30-Jul-21	0.50	4.04	9.80	
26-Jul-21	8-Aug-21	13-Aug-21	0.90	6.68	21.40	
9-Aug-21	22-Aug-21	27-Aug-21	0.00	4.58	21.20	
23-Aug-21	5-Sep-21	9-Sep-21	0.60	4.75	21.30	
6-Sep-21	19-Sep-21	23-Sep-21	0.30	4.71	21.10	
20-Sep-21	3-Oct-21	8-Oct-21	1.20	4.95	12.90	
4-Oct-21	17-Oct-21	22-Oct-21	0.00	5.52	21.50	
18-Oct-21	31-Oct-21	5-Nov-21	0.80	5.38	21.10	
1-Nov-21	14-Nov-21	23-Nov-21	2.81	10.60	21.00	
15-Nov-21	28-Nov-21	9-Dec-21	0.00	14.86	21.40	
29-Nov-21	12-Dec-21	15-Dec-21	-0.90	10.97	21.30	
13-Dec-21	26-Dec-21	14-Jan-22	3.20	8.29	21.20	Boiler Offline 25/12/21 to 26/12/21
27-Dec-21	9-Jan-22	14-Jan-22	3.70	14.80	21.30	Online 5/1/22 to 7/1/22
10-Jan-22	23-Jan-22	28-Jan-22	4.10	12.00	21.20	
24-Jan-22	6-Feb-22	11-Feb-22	-0.90	12.00	21.30	
7-Feb-22	20-Feb-22	28-Feb-22	2.90	10.25	21.20	
21-Feb-22	31-Mar-22	31-Mar-22	NR	NR	NR	Boiler offline due to flood damage from 25/2/22
1-Apr-22	30-Apr-22	30-Apr-22	NR	NR	NR	Boiler offline due to flood damage from 25/2/22

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	
28-Dec-20	10-Jan-21	20-Jan-21	25	31	42.2	19482	98986	137184	Boiler Online 5/01/21, excursion on 5/01/21 due to turbine control fault for 30 minutes
11-Jan-21	24-Jan-21	29-Jan-21	23	36	39.5	124752	136148	137184	
25-Jan-21	7-Feb-21	10-Feb-21	27	36	39.6	135183	137017	137184	
8-Feb-21	21-Feb-21	26-Feb-21	24	35	39	68592	124958	137184	
22-Feb-21	7-Mar-21	12-Mar-21	24	35	39	119179	134203	137184	
8-Mar-21	21-Mar-21	8-Apr-21	22	32	37	68592	128459	137184	
22-Mar-21	4-Apr-21	8-Apr-21	21	30	36	137184	137184	137184	
5-Apr-21	18-Apr-21	22-Apr-21	21	30	34	135707	137061	137184	
19-Apr-21	2-May-21	6-May-21	19	28	33	137184	137184	137184	
3-May-21	16-May-21	20-May-21	No Data	No Data	No Data	No Data	No Data	No Data	Boiler Not Operating
17-May-21	30-May-21	2-Jun-21	17	30	33	43108	64138	68592	Boiler Offline 17/05/21 to 24/05/21
31-May-21	13-Jun-21	17-Jun-21	16	30	44.8	67544	68505	68592	Fault in the side stream flush valve - high temperature 11/06/21 for 13 minutes
14-Jun-21	27-Jun-21	2-Jul-21	22	29	39	68592	68592	68592	
28-Jun-21	11-Jul-21	16-Jul-21	15	25	33	66830	68445	68592	
12-Jul-21	25-Jul-21	30-Jul-21	21	29	35	68592	68592	68592	
26-Jul-21	8-Aug-21	13-Aug-21	16	26	36	68592	72895	85311	
9-Aug-21	22-Aug-21	27-Aug-21	18	27	32	73498	122378	137184	
23-Aug-21	5-Sep-21	9-Sep-21	17	27	33	135660	137025	137184	
6-Sep-21	19-Sep-21	23-Sep-21	19	28	35	132992	136815	137184	
20-Sep-21	3-Oct-21	8-Oct-21	21	30	37	134612	136767	137184	
4-Oct-21	17-Oct-21	22-Oct-21	21	30	38	133564	136863	137184	
18-Oct-21	31-Oct-21	5-Nov-21	22	32	39	133564	136882	137184	
1-Nov-21	14-Nov-21	23-Nov-21	22	32	39	133564	136882	137184	
15-Nov-21	28-Nov-21	9-Dec-21	20	29	38	50872	125913	137184	
29-Nov-21	12-Dec-21	15-Dec-21	22	29	35	68592	122501	137184	
13-Dec-21	26-Dec-21	14-Jan-22	29	35	39	134469	136843	137184	
27-Dec-21	9-Jan-22	14-Jan-22	24	29	37	68592	104869	137184	
10-Jan-22	23-Jan-22	28-Jan-22	22	31	40	68211	122565	137184	
24-Jan-22	6-Feb-22	11-Feb-22	22	30	38	68592	118551	137184	
7-Feb-22	20-Feb-22	25-Feb-22	24	31	37	116225	133477	137184	
21-Feb-22	25-Feb-22	11-Mar-22	20	29	38	50872	126347	137184	Plant shut-in @ 22:30 25/02/22 pre-flood event
26-Feb-22	31-Mar-22	31-Mar-22	NR	NR	NR	NR	NR	NR	Plant not operating due to flood damage
1-Apr-22	30-Apr-22	30-Apr-22	NR	NR	NR	NR	NR	NR	Plant not operating due to flood damage

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/prpocapp/>
 Parameters Monitored Temperature
 Monitoring Frequency Continuous online (by calculation)
 Limits Not Applicable - background data only



MONITORING PERIOD			Temperature (°C)			Volume (kL/day)			Notes
Date Start	Date Finish	Date Published	Minimum Background Temperature	Mean Background Temperature	Maximum Background Temperature	Minimum Daily Intake	Mean Daily Intake	Maximum Daily Intake	
28-Dec-20	10-Jan-21	20-Jan-21	23.5	27.5	44.5	19482	98986	137184	Boiler Online 5/01/21
11-Jan-21	24-Jan-21	29-Jan-21	16.7	26.3	28.3	124752	136148	137184	
25-Jan-21	7-Feb-21	10-Feb-21	26.2	28.0	30.0	135183	137017	137184	
8-Feb-21	21-Feb-21	26-Feb-21	22.9	26.5	28.8	68592	124958	137184	
22-Feb-21	7-Mar-21	12-Mar-21	21.0	26.3	28.3	119179	134203	137184	
8-Mar-21	21-Mar-21	08-Apr-21	23.1	24.9	26.9	68592	128459	137184	
22-Mar-21	4-Apr-21	08-Apr-21	22.2	23.4	25.0	137184	137184	137184	
5-Apr-21	18-Apr-21	22-Apr-21	20.7	22.0	23.4	135707	137061	137184	
19-Apr-21	2-May-21	06-May-21	16.8	20.5	21.6	137184	137184	137184	
3-May-21	16-May-21	20-May-21	12.0	21.3	37.8	No Data	No Data	No Data	Boiler Not Operating
17-May-21	30-May-21	02-Jun-21	17.3	18.7	29.4	43108	64138	68592	Boiler Offline 17/05/21 to 24/05/21
31-May-21	13-Jun-21	17-Jun-21	15.9	17.6	21.0	67544	68505	68592	
14-Jun-21	27-Jun-21	02-Jul-21	15.8	16.9	18.7	68592	68592	68592	
28-Jun-21	11-Jul-21	16-Jul-21	15.9	17.5	19.4	66830	68445	68592	
12-Jul-21	25-Jul-21	30-Jul-21	15.4	16.5	17.8	68592	68592	68592	
26-Jul-21	8-Aug-21	13-Aug-21	15.2	17.0	19.0	68592	72895	85311	
9-Aug-21	22-Aug-21	27-Aug-21	11.4	18.7	21.2	73498	122378	137184	
23-Aug-21	5-Sep-21	09-Sep-21	17.4	19.7	21.7	135660	137025	137184	
6-Sep-21	19-Sep-21	23-Sep-21	19.5	20.7	22.3	132992	136815	137184	
20-Sep-21	3-Oct-21	08-Oct-21	16.0	21.6	23.3	134612	136767	137184	
4-Oct-21	17-Oct-21	22-Oct-21	21.9	23.2	24.7	133564	136863	137184	
18-Oct-21	31-Oct-21	05-Nov-21	22.5	24.4	27.1	133564	136882	137184	
1-Nov-21	14-Nov-21	23-Nov-21	22.5	24.3	27.1	133564	136882	137184	
15-Nov-21	28-Nov-21	09-Dec-21	19.9	25.6	39.8	50872	125913	137184	
29-Nov-21	12-Dec-21	15-Dec-21	22.0	24.2	26.4	68592	122501	137184	
13-Dec-21	26-Dec-21	14-Jan-22	25.0	27.0	28.9	134469	136843	137184	
27-Dec-21	9-Jan-22	14-Jan-22	24.8	26.2	28.4	68592	104869	137184	
10-Jan-22	23-Jan-22	28-Jan-22	22.8	26.5	28.4	68210	122565	137184	
24-Jan-22	6-Feb-22	11-Feb-22	23.2	25.2	28.0	68592	118551	137184	
7-Feb-22	20-Feb-22	25-Feb-22	24.0	25.0	26.3	116225	133477	137184	
21-Feb-22	25-Feb-22	11-Mar-22	19.9	26.0	39.8	50872	126347	137184	Plant shut-in @ 22:30 25/02/22 pre-flood event
26-Feb-22	31-Mar-22	31-Mar-22	NR	NR	NR	NR	NR	NR	Plant not operating due to flood damage
1-Apr-22	30-Apr-22	30-Apr-22	NR	NR	NR	NR	NR	NR	Plant not operating due to flood damage

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
20-Jan-21	29-Jan-21	10-Feb-21	7.6	10.0	6.4	0.9	1.2	
26-Feb-21	11-Mar-21	12-Mar-21	22.4	154.0	6.2	1.9	0.9	
16-Mar-21	6-Apr-21	8-Apr-21	19.7	150.0	6.2	<0.1	1.4	
13-Apr-21	21-Apr-21	22-Apr-21	13.0	82.0	6.0	1.0	1.1	
18-May-21	24-May-21	2-Jun-21	15.8	55.0	6.3	0.6	1.1	
22-Jun-21	1-Jul-21	2-Jul-21	3.5	5.0	6.8	0.8	0.6	
27-Jul-21	2-Aug-21	13-Aug-21	5.1	72.0	6.5	1.1	1.2	
24-Aug-21	30-Aug-21	9-Sep-21	3.2	28.0	7.6	1.5	0.4	
28-Sep-21	7-Oct-21	8-Oct-21	1.5	11.0	7.0	1.0	0.5	
25-Oct-21	4-Nov-21	5-Nov-21	5.1	32.0	6.6	1.2	1.0	
9-Nov-21	19-Nov-21	23-Nov-21	3.0	15.0	6.8	0.6	0.8	
7-Dec-21	17-Dec-21	22-Dec-21	14.0	117.0	6.1	0.9	1.1	
31-Jan-22	NA	NA	NR	NR	NR	NR	NR	Pond sample unable to be taken due to manning issues
25-Feb-22	NA	NA	NR	NR	NR	NR	NR	Pond sample unable to be taken due to flooding in Feb
20-Mar-22	NA	NA	NR	NR	NR	NR	NR	Pond sample unable to be taken due to flooding in Feb
29-Apr-22	NA	NA	NR	NR	NR	NR	NR	Sample taken 29/4/22, results not returned

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
20-Jan-21	29-Jan-21	10-Feb-21	9.9	8.0	7.0	1.6	0.7	
26-Feb-21	11-Mar-21	12-Mar-21	3.2	32.0	6.8	1.5	0.6	
16-Mar-21	6-Apr-21	8-Apr-21	22.9	72.0	6.9	1.3	0.8	
13-Apr-21	21-Apr-21	22-Apr-21	6.0	27.0	6.9	1.2	0.5	
18-May-21	24-May-21	2-Jun-21	9.6	6.0	7.0	1.5	0.4	
22-Jun-21	1-Jul-21	2-Jul-21	3.1	6.0	7.3	1.5	0.4	
27-Jul-21	27-Jul-21	13-Aug-21	1.8	18.0	7.0	1.9	0.4	
24-Aug-21	30-Aug-21	9-Sep-21	3.0	44.0	6.8	1.0	0.8	
28-Sep-21	7-Oct-21	8-Oct-21	13.0	13.0	7.5	1.7	0.4	
25-Oct-21	4-Nov-21	5-Nov-21	1.9	14.0	6.9	1.4	0.3	
9-Nov-21	19-Nov-21	23-Nov-21	3.7	10.0	7.6	1.6	0.4	
7-Dec-21	17-Dec-21	22-Dec-21	6.2	34.0	6.8	2.0	0.4	
31-Jan-22	NA	NA	NR	NR	NR	NR	NR	Pond sample unable to be taken due to manning issues
25-Feb-22	NA	NA	NR	NR	NR	NR	NR	Pond sample unable to be taken due to flooding in Feb
20-Mar-22	NA	NA	NR	NR	NR	NR	NR	Pond sample unable to be taken due to flooding in Feb
29-Apr-22	NA	NA	NR	NR	NR	NR	NR	Sample taken 29/4/22, results not returned

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 Measured See Table
 Frequency & Method Biannual Grab Sample
 Licence Limits Not Prescribed



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
Aluminium	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.695	
		28-Sep-21	07-Oct-21	08-Oct-21	0.205	
Ammonia	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.680	
		28-Sep-21	07-Oct-21	08-Oct-21	0.292	
Arsenic	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.003	
		28-Sep-21	07-Oct-21	08-Oct-21	0.001	
Barium	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.118	
		28-Sep-21	07-Oct-21	08-Oct-21	0.078	
Bicarbonate	CaCO ₃ /kg	13-Apr-21	19-Apr-21	22-Apr-21	37.000	
		28-Sep-21	07-Oct-21	08-Oct-21	120.000	
Cadmium	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	<0.001	
		28-Sep-21	07-Oct-21	08-Oct-21	<0.001	
Calcium	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	26.286	
		28-Sep-21	07-Oct-21	08-Oct-21	33.689	
Chloride	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	2.206	
		28-Sep-21	07-Oct-21	08-Oct-21	1.389	
Chromium	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.001	
		28-Sep-21	07-Oct-21	08-Oct-21	<0.001	
Conductivity	dS/m	13-Apr-21	19-Apr-21	22-Apr-21	1.170	
		28-Sep-21	07-Oct-21	08-Oct-21	0.825	
Copper	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	<0.001	
		28-Sep-21	07-Oct-21	08-Oct-21	<0.001	
Hardness (as calcium)	CaCO ₃ /kg	13-Apr-21	19-Apr-21	22-Apr-21	142.124	
		28-Sep-21	07-Oct-21	08-Oct-21	33.700	
Iron	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	7.673	
		28-Sep-21	07-Oct-21	08-Oct-21	1.350	
Lead	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	<0.001	
		28-Sep-21	07-Oct-21	08-Oct-21	<0.001	
Magnesium	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	18.574	
		28-Sep-21	07-Oct-21	08-Oct-21	15.500	
Manganese	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.154	
		28-Sep-21	07-Oct-21	08-Oct-21	0.046	
Mercury	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	<0.0005	
		28-Sep-21	07-Oct-21	08-Oct-21	<0.0005	
Nickel	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.002	
		28-Sep-21	07-Oct-21	08-Oct-21	<0.001	
Nitrate	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.016	
		28-Sep-21	07-Oct-21	08-Oct-21	0.623	
Nitrite	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.248	
		28-Sep-21	07-Oct-21	08-Oct-21	0.100	
Orthophosphate	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.027	
		28-Sep-21	07-Oct-21	08-Oct-21	0.007	
Potassium	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	8.177	
		28-Sep-21	07-Oct-21	08-Oct-21	11.000	
Selenium	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	<0.002	
		28-Sep-21	07-Oct-21	08-Oct-21	<0.002	
Silica (total)	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	23.467	
		28-Sep-21	07-Oct-21	08-Oct-21	20.400	
Silver	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	<0.001	
		28-Sep-21	07-Oct-21	08-Oct-21	<0.001	
Sodium	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	175.331	
		28-Sep-21	07-Oct-21	08-Oct-21	113.000	

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



Pollutants	Units	Date Sampled	Date Received	Date Published	Results	Notes
Sodium Adsorption Ratio	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	6.394	
		28-Sep-21	07-Oct-21	08-Oct-21	4.000	
Sulfate	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	115.047	
		28-Sep-21	07-Oct-21	08-Oct-21	87.000	
Total Dissolved Salts	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	795.600	
		28-Sep-21	07-Oct-21	08-Oct-21	561.000	
Total Organic Carbon	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	21.500	
		28-Sep-21	07-Oct-21	08-Oct-21	20.400	
Total Suspended Solids	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	<1	
		28-Sep-21	07-Oct-21	08-Oct-21	<1	
Zinc	mg/l	13-Apr-21	19-Apr-21	22-Apr-21	0.024	
		28-Sep-21	07-Oct-21	08-Oct-21	0.004	
pH		13-Apr-21	19-Apr-21	22-Apr-21	6.780	
		28-Sep-21	07-Oct-21	08-Oct-21	7.600	

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, 31 December 2020	9:01am	Friday, 1 January 2021	9:00am	0.8	0.2
Friday, 1 January 2021	9:01am	Saturday, 2 January 2021	9:00am	15.6	0.8
Saturday, 2 January 2021	9:01am	Sunday, 3 January 2021	9:00am	0	0
Sunday, 3 January 2021	9:01am	Monday, 4 January 2021	9:00am	1.8	0.2
Monday, 4 January 2021	9:01am	Tuesday, 5 January 2021	9:00am	0	0
Tuesday, 5 January 2021	9:01am	Wednesday, 6 January 2021	9:00am	0.6	0.2
Wednesday, 6 January 2021	9:01am	Thursday, 7 January 2021	9:00am	10.6	0.4
Thursday, 7 January 2021	9:01am	Friday, 8 January 2021	9:00am	33.2	0.8
Friday, 8 January 2021	9:01am	Saturday, 9 January 2021	9:00am	11	1
Saturday, 9 January 2021	9:01am	Sunday, 10 January 2021	9:00am	1.8	0.6
Sunday, 10 January 2021	9:01am	Monday, 11 January 2021	9:00am	2.6	0.6
Monday, 11 January 2021	9:01am	Tuesday, 12 January 2021	9:00am	0.2	0.2
Tuesday, 12 January 2021	9:01am	Wednesday, 13 January 2021	9:00am	0.6	0.2
Wednesday, 13 January 2021	9:01am	Thursday, 14 January 2021	9:00am	0.2	0.2
Thursday, 14 January 2021	9:01am	Friday, 15 January 2021	9:00am	0	0
Friday, 15 January 2021	9:01am	Saturday, 16 January 2021	9:00am	2.6	0.2
Saturday, 16 January 2021	9:01am	Sunday, 17 January 2021	9:00am	0.2	0.2
Sunday, 17 January 2021	9:01am	Monday, 18 January 2021	9:00am	0	0
Monday, 18 January 2021	9:01am	Tuesday, 19 January 2021	9:00am	20	1
Tuesday, 19 January 2021	9:01am	Wednesday, 20 January 2021	9:00am	8.2	1
Wednesday, 20 January 2021	9:01am	Thursday, 21 January 2021	9:00am	6	0.2
Thursday, 21 January 2021	9:01am	Friday, 22 January 2021	9:00am	0	0
Friday, 22 January 2021	9:01am	Saturday, 23 January 2021	9:00am	0	0
Saturday, 23 January 2021	9:01am	Sunday, 24 January 2021	9:00am	0	0
Sunday, 24 January 2021	9:01am	Monday, 25 January 2021	9:00am	0	0
Monday, 25 January 2021	9:01am	Tuesday, 26 January 2021	9:00am	0	0
Tuesday, 26 January 2021	9:01am	Wednesday, 27 January 2021	9:00am	0	0
Wednesday, 27 January 2021	9:01am	Thursday, 28 January 2021	9:00am	0	0
Thursday, 28 January 2021	9:01am	Friday, 29 January 2021	9:00am	0	0
Friday, 29 January 2021	9:01am	Saturday, 30 January 2021	9:00am	0.4	0.2
Saturday, 30 January 2021	9:01am	Sunday, 31 January 2021	9:00am	0.6	0.2
Sunday, 31 January 2021	9:01am	Monday, 1 February 2021	9:00am	2.6	0.6
Monday, 1 February 2021	9:01am	Tuesday, 2 February 2021	9:00am	0	0
Tuesday, 2 February 2021	9:01am	Wednesday, 3 February 2021	9:00am	18.2	1.6
Wednesday, 3 February 2021	9:01am	Thursday, 4 February 2021	9:00am	0	0
Thursday, 4 February 2021	9:01am	Friday, 5 February 2021	9:00am	0	0
Friday, 5 February 2021	9:01am	Saturday, 6 February 2021	9:00am	0	0
Saturday, 6 February 2021	9:01am	Sunday, 7 February 2021	9:00am	0	0
Sunday, 7 February 2021	9:01am	Monday, 8 February 2021	9:00am	4.6	0.8
Monday, 8 February 2021	9:01am	Tuesday, 9 February 2021	9:00am	0.2	0.2
Tuesday, 9 February 2021	9:01am	Wednesday, 10 February 2021	9:00am	0.8	0.2
Wednesday, 10 February 2021	9:01am	Thursday, 11 February 2021	9:00am	6.6	0.6
Thursday, 11 February 2021	9:01am	Friday, 12 February 2021	9:00am	0	0
Friday, 12 February 2021	9:01am	Saturday, 13 February 2021	9:00am	0	0
Saturday, 13 February 2021	9:01am	Sunday, 14 February 2021	9:00am	12.4	0.4
Sunday, 14 February 2021	9:01am	Monday, 15 February 2021	9:00am	7	0.4
Monday, 15 February 2021	9:01am	Tuesday, 16 February 2021	9:00am	6	0.8
Tuesday, 16 February 2021	9:01am	Wednesday, 17 February 2021	9:00am	27.2	1.4
Wednesday, 17 February 2021	9:01am	Thursday, 18 February 2021	9:00am	32.2	1
Thursday, 18 February 2021	9:01am	Friday, 19 February 2021	9:00am	3.2	0.6
Friday, 19 February 2021	9:01am	Saturday, 20 February 2021	9:00am	60.6	1.4
Saturday, 20 February 2021	9:01am	Sunday, 21 February 2021	9:00am	4.6	0.4
Sunday, 21 February 2021	9:01am	Monday, 22 February 2021	9:00am	7.2	0.2
Monday, 22 February 2021	9:01am	Tuesday, 23 February 2021	9:00am	0	0
Tuesday, 23 February 2021	9:01am	Wednesday, 24 February 2021	9:00am	21.4	1
Wednesday, 24 February 2021	9:01am	Thursday, 25 February 2021	9:00am	7.6	0.8
Thursday, 25 February 2021	9:01am	Friday, 26 February 2021	9:00am	0.6	0.2
Friday, 26 February 2021	9:01am	Saturday, 27 February 2021	9:00am	0	0
Saturday, 27 February 2021	9:01am	Sunday, 28 February 2021	9:00am	0	0
Sunday, 28 February 2021	9:01am	Monday, 1 March 2021	9:00am	0	0
Monday, 1 March 2021	9:01am	Tuesday, 2 March 2021	9:00am	2.6	0.2
Tuesday, 2 March 2021	9:01am	Wednesday, 3 March 2021	9:00am	0.8	0.2
Wednesday, 3 March 2021	9:01am	Thursday, 4 March 2021	9:00am	34.6	2.4
Thursday, 4 March 2021	9:01am	Friday, 5 March 2021	9:00am	0	0
Friday, 5 March 2021	9:01am	Saturday, 6 March 2021	9:00am	3.2	0.6
Saturday, 6 March 2021	9:01am	Sunday, 7 March 2021	9:00am	3.2	0.4
Sunday, 7 March 2021	9:01am	Monday, 8 March 2021	9:00am	0.2	0.2
Monday, 8 March 2021	9:01am	Tuesday, 9 March 2021	9:00am	21.4	1
Tuesday, 9 March 2021	9:01am	Wednesday, 10 March 2021	9:00am	1.6	0.2
Wednesday, 10 March 2021	9:01am	Thursday, 11 March 2021	9:00am	12.8	0.8
Thursday, 11 March 2021	9:01am	Friday, 12 March 2021	9:00am	38.2	1.4
Friday, 12 March 2021	9:01am	Saturday, 13 March 2021	9:00am	0	0
Saturday, 13 March 2021	9:01am	Sunday, 14 March 2021	9:00am	0	0
Sunday, 14 March 2021	9:01am	Monday, 15 March 2021	9:00am	21.8	1
Monday, 15 March 2021	9:01am	Tuesday, 16 March 2021	9:00am	5.8	0.2
Tuesday, 16 March 2021	9:01am	Wednesday, 17 March 2021	9:00am	6	0.4
Wednesday, 17 March 2021	9:01am	Thursday, 18 March 2021	9:00am	40.2	1.2
Thursday, 18 March 2021	9:01am	Friday, 19 March 2021	9:00am	10	0.4
Friday, 19 March 2021	9:01am	Saturday, 20 March 2021	9:00am	14.8	1.2
Saturday, 20 March 2021	9:01am	Sunday, 21 March 2021	9:00am	37.2	1
Sunday, 21 March 2021	9:01am	Monday, 22 March 2021	9:00am	88.6	2
Monday, 22 March 2021	9:01am	Tuesday, 23 March 2021	9:00am	40	0.6
Tuesday, 23 March 2021	9:01am	Wednesday, 24 March 2021	9:00am	31.2	0.6
Wednesday, 24 March 2021	9:01am	Thursday, 25 March 2021	9:00am	0	0
Thursday, 25 March 2021	9:01am	Friday, 26 March 2021	9:00am	0	0
Friday, 26 March 2021	9:01am	Saturday, 27 March 2021	9:00am	0	0
Saturday, 27 March 2021	9:01am	Sunday, 28 March 2021	9:00am	0	0
Sunday, 28 March 2021	9:01am	Monday, 29 March 2021	9:00am	0	0
Monday, 29 March 2021	9:01am	Tuesday, 30 March 2021	9:00am	11.4	1.2
Tuesday, 30 March 2021	9:01am	Wednesday, 31 March 2021	9:00am	0.2	0.2
Wednesday, 31 March 2021	9:01am	Thursday, 1 April 2021	9:00am	24.2	1.6
Thursday, 1 April 2021	9:01am	Friday, 2 April 2021	9:00am	25.6	0.8
Friday, 2 April 2021	9:01am	Saturday, 3 April 2021	9:00am	0	0
Saturday, 3 April 2021	9:01am	Sunday, 4 April 2021	9:00am	1	0.2
Sunday, 4 April 2021	9:01am	Monday, 5 April 2021	9:00am	19.2	0.6
Monday, 5 April 2021	9:01am	Tuesday, 6 April 2021	9:00am	28.6	0.2
Tuesday, 6 April 2021	9:01am	Wednesday, 7 April 2021	9:00am	19.2	0.6
Wednesday, 7 April 2021	9:01am	Thursday, 8 April 2021	9:00am	9.8	0.8
Thursday, 8 April 2021	9:01am	Friday, 9 April 2021	9:00am	3.8	0.2

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)
Friday, 9 April 2021	9:01am	Saturday, 10 April 2021	9:00am	0	0
Saturday, 10 April 2021	9:01am	Sunday, 11 April 2021	9:00am	0	0
Sunday, 11 April 2021	9:01am	Monday, 12 April 2021	9:00am	2	0.2
Monday, 12 April 2021	9:01am	Tuesday, 13 April 2021	9:00am	0.2	0.2
Tuesday, 13 April 2021	9:01am	Wednesday, 14 April 2021	9:00am	0	0
Wednesday, 14 April 2021	9:01am	Thursday, 15 April 2021	9:00am	0	0
Thursday, 15 April 2021	9:01am	Friday, 16 April 2021	9:00am	0	0
Friday, 16 April 2021	9:01am	Saturday, 17 April 2021	9:00am	0	0
Saturday, 17 April 2021	9:01am	Sunday, 18 April 2021	9:00am	4.6	0.2
Sunday, 18 April 2021	9:01am	Monday, 19 April 2021	9:00am	0	0
Monday, 19 April 2021	9:01am	Tuesday, 20 April 2021	9:00am	0	0
Tuesday, 20 April 2021	9:01am	Wednesday, 21 April 2021	9:00am	0	0
Wednesday, 21 April 2021	9:01am	Thursday, 22 April 2021	9:00am	0	0
Thursday, 22 April 2021	9:01am	Friday, 23 April 2021	9:00am	0	0
Friday, 23 April 2021	9:01am	Saturday, 24 April 2021	9:00am	0	0
Saturday, 24 April 2021	9:01am	Sunday, 25 April 2021	9:00am	0	0
Sunday, 25 April 2021	9:01am	Monday, 26 April 2021	9:00am	0	0
Monday, 26 April 2021	9:01am	Tuesday, 27 April 2021	9:00am	2	0.6
Tuesday, 27 April 2021	9:01am	Wednesday, 28 April 2021	9:00am	0.4	0.2
Wednesday, 28 April 2021	9:01am	Thursday, 29 April 2021	9:00am	2.3	0.6
Thursday, 29 April 2021	9:01am	Friday, 30 April 2021	9:00am	12.4	1.2
Friday, 30 April 2021	9:01am	Saturday, 1 May 2021	9:00am	21.2	1.6
Saturday, 1 May 2021	9:01am	Sunday, 2 May 2021	9:00am	1.8	0.6
Sunday, 2 May 2021	9:01am	Monday, 3 May 2021	9:00am	2	0.4
Monday, 3 May 2021	9:01am	Tuesday, 4 May 2021	9:00am	0	0
Tuesday, 4 May 2021	9:01am	Wednesday, 5 May 2021	9:00am	0.2	0.2
Wednesday, 5 May 2021	9:01am	Thursday, 6 May 2021	9:00am	13.2	0.2
Thursday, 6 May 2021	9:01am	Friday, 7 May 2021	9:00am	0	0
Friday, 7 May 2021	9:01am	Saturday, 8 May 2021	9:00am	0	0
Saturday, 8 May 2021	9:01am	Sunday, 9 May 2021	9:00am	0	0
Sunday, 9 May 2021	9:01am	Monday, 10 May 2021	9:00am	1.4	0.4
Monday, 10 May 2021	9:01am	Tuesday, 11 May 2021	9:00am	0	0
Tuesday, 11 May 2021	9:01am	Wednesday, 12 May 2021	9:00am	0.8	0.2
Wednesday, 12 May 2021	9:01am	Thursday, 13 May 2021	9:00am	0.2	0.2
Thursday, 13 May 2021	9:01am	Friday, 14 May 2021	9:00am	0	0
Friday, 14 May 2021	9:01am	Saturday, 15 May 2021	9:00am	0	0
Saturday, 15 May 2021	9:01am	Sunday, 16 May 2021	9:00am	0	0
Sunday, 16 May 2021	9:01am	Monday, 17 May 2021	9:00am	0	0
Monday, 17 May 2021	9:01am	Tuesday, 18 May 2021	9:00am	0	0
Tuesday, 18 May 2021	9:01am	Wednesday, 19 May 2021	9:00am	1.4	0.2
Wednesday, 19 May 2021	9:01am	Thursday, 20 May 2021	9:00am	0.2	0.2
Thursday, 20 May 2021	9:01am	Friday, 21 May 2021	9:00am	0.2	0.2
Friday, 21 May 2021	9:01am	Saturday, 22 May 2021	9:00am	18.4	1.6
Saturday, 22 May 2021	9:01am	Sunday, 23 May 2021	9:00am	4.2	0.6
Sunday, 23 May 2021	9:01am	Monday, 24 May 2021	9:00am	7.4	1
Monday, 24 May 2021	9:01am	Tuesday, 25 May 2021	9:00am	1.6	0.2
Tuesday, 25 May 2021	9:01am	Wednesday, 26 May 2021	9:00am	0.2	0.2
Wednesday, 26 May 2021	9:01am	Thursday, 27 May 2021	9:00am	0.2	0.2
Thursday, 27 May 2021	9:01am	Friday, 28 May 2021	9:00am	0	0
Friday, 28 May 2021	9:01am	Saturday, 29 May 2021	9:00am	0	0
Saturday, 29 May 2021	9:01am	Sunday, 30 May 2021	9:00am	0	0
Sunday, 30 May 2021	9:01am	Monday, 31 May 2021	9:00am	0	0
Monday, 31 May 2021	9:01am	Tuesday, 1 June 2021	9:00am	0	0
Tuesday, 1 June 2021	9:01am	Wednesday, 2 June 2021	9:00am	0	0
Wednesday, 2 June 2021	9:01am	Thursday, 3 June 2021	9:00am	0	0
Thursday, 3 June 2021	9:01am	Friday, 4 June 2021	9:00am	1.8	0.2
Friday, 4 June 2021	9:01am	Saturday, 5 June 2021	9:00am	0	0
Saturday, 5 June 2021	9:01am	Sunday, 6 June 2021	9:00am	0	0
Sunday, 6 June 2021	9:01am	Monday, 7 June 2021	9:00am	0	0
Monday, 7 June 2021	9:01am	Tuesday, 8 June 2021	9:00am	0.2	0.2
Tuesday, 8 June 2021	9:01am	Wednesday, 9 June 2021	9:00am	2.6	0.4
Wednesday, 9 June 2021	9:01am	Thursday, 10 June 2021	9:00am	0.2	0.2
Thursday, 10 June 2021	9:01am	Friday, 11 June 2021	9:00am	0	0
Friday, 11 June 2021	9:01am	Saturday, 12 June 2021	9:00am	0	0
Saturday, 12 June 2021	9:01am	Sunday, 13 June 2021	9:00am	0	0
Sunday, 13 June 2021	9:01am	Monday, 14 June 2021	9:00am	0	0
Monday, 14 June 2021	9:01am	Tuesday, 15 June 2021	9:00am	0	0
Tuesday, 15 June 2021	9:01am	Wednesday, 16 June 2021	9:00am	0	0
Wednesday, 16 June 2021	9:01am	Thursday, 17 June 2021	9:00am	4.6	0.4
Thursday, 17 June 2021	9:01am	Friday, 18 June 2021	9:00am	0	0
Friday, 18 June 2021	9:01am	Saturday, 19 June 2021	9:00am	0	0
Saturday, 19 June 2021	9:01am	Sunday, 20 June 2021	9:00am	0	0
Sunday, 20 June 2021	9:01am	Monday, 21 June 2021	9:00am	0	0
Monday, 21 June 2021	9:01am	Tuesday, 22 June 2021	9:00am	2.2	0.4
Tuesday, 22 June 2021	9:01am	Wednesday, 23 June 2021	9:00am	3.2	0.4
Wednesday, 23 June 2021	9:01am	Thursday, 24 June 2021	9:00am	0.8	0.2
Thursday, 24 June 2021	9:01am	Friday, 25 June 2021	9:00am	0.4	0.2
Friday, 25 June 2021	9:01am	Saturday, 26 June 2021	9:00am	1.8	0.2
Saturday, 26 June 2021	9:01am	Sunday, 27 June 2021	9:00am	0.2	0.2
Sunday, 27 June 2021	9:01am	Monday, 28 June 2021	9:00am	0	0
Monday, 28 June 2021	9:01am	Tuesday, 29 June 2021	9:00am	18.4	0.8
Tuesday, 29 June 2021	9:01am	Wednesday, 30 June 2021	9:00am	6	0.8
Wednesday, 30 June 2021	9:01am	Thursday, 1 July 2021	9:00am	29	1.6
Thursday, 1 July 2021	9:01am	Friday, 2 July 2021	9:00am	22.2	0.8
Friday, 2 July 2021	9:01am	Saturday, 3 July 2021	9:00am	7.8	1
Saturday, 3 July 2021	9:01am	Sunday, 4 July 2021	9:00am	6.4	0.4
Sunday, 4 July 2021	9:01am	Monday, 5 July 2021	9:00am	0	0
Monday, 5 July 2021	9:01am	Tuesday, 6 July 2021	9:00am	0	0
Tuesday, 6 July 2021	9:01am	Wednesday, 7 July 2021	9:00am	0.2	0.2
Wednesday, 7 July 2021	9:01am	Thursday, 8 July 2021	9:00am	0	0
Thursday, 8 July 2021	9:01am	Friday, 9 July 2021	9:00am	8.4	0.2
Friday, 9 July 2021	9:01am	Saturday, 10 July 2021	9:00am	3.4	0.6
Saturday, 10 July 2021	9:01am	Sunday, 11 July 2021	9:00am	0	0
Sunday, 11 July 2021	9:01am	Monday, 12 July 2021	9:00am	9.6	0.6
Monday, 12 July 2021	9:01am	Tuesday, 13 July 2021	9:00am	0.6	0.2
Tuesday, 13 July 2021	9:01am	Wednesday, 14 July 2021	9:00am	0.2	0.2
Wednesday, 14 July 2021	9:01am	Thursday, 15 July 2021	9:00am	0	0
Thursday, 15 July 2021	9:01am	Friday, 16 July 2021	9:00am	0	0
Friday, 16 July 2021	9:01am	Saturday, 17 July 2021	9:00am	0.8	0.2

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)
Saturday, 17 July 2021	9:01am	Sunday, 18 July 2021	9:00am	0	0
Sunday, 18 July 2021	9:01am	Monday, 19 July 2021	9:00am	0	0
Monday, 19 July 2021	9:01am	Tuesday, 20 July 2021	9:00am	0	0
Tuesday, 20 July 2021	9:01am	Wednesday, 21 July 2021	9:00am	0	0
Wednesday, 21 July 2021	9:01am	Thursday, 22 July 2021	9:00am	0	0
Thursday, 22 July 2021	9:01am	Friday, 23 July 2021	9:00am	0	0
Friday, 23 July 2021	9:01am	Saturday, 24 July 2021	9:00am	0.6	0.2
Saturday, 24 July 2021	9:01am	Sunday, 25 July 2021	9:00am	0	0
Sunday, 25 July 2021	9:01am	Monday, 26 July 2021	9:00am	0	0
Monday, 26 July 2021	9:01am	Tuesday, 27 July 2021	9:00am	0	0
Tuesday, 27 July 2021	9:01am	Wednesday, 28 July 2021	9:00am	0	0
Wednesday, 28 July 2021	9:01am	Thursday, 29 July 2021	9:00am	0	0
Thursday, 29 July 2021	9:01am	Friday, 30 July 2021	9:00am	0	0
Friday, 30 July 2021	9:01am	Saturday, 31 July 2021	9:00am	0	0
Saturday, 31 July 2021	9:01am	Sunday, 1 August 2021	9:00am	0	0
Sunday, 1 August 2021	9:01am	Monday, 2 August 2021	9:00am	0	0
Monday, 2 August 2021	9:01am	Tuesday, 3 August 2021	9:00am	1.2	0.2
Tuesday, 3 August 2021	9:01am	Wednesday, 4 August 2021	9:00am	2.6	0.6
Wednesday, 4 August 2021	9:01am	Thursday, 5 August 2021	9:00am	0	0
Thursday, 5 August 2021	9:01am	Friday, 6 August 2021	9:00am	0	0
Friday, 6 August 2021	9:01am	Saturday, 7 August 2021	9:00am	0	0
Saturday, 7 August 2021	9:01am	Sunday, 8 August 2021	9:00am	0	0
Sunday, 8 August 2021	9:01am	Monday, 9 August 2021	9:00am	4.4	0.4
Monday, 9 August 2021	9:01am	Tuesday, 10 August 2021	9:00am	0	0
Tuesday, 10 August 2021	9:01am	Wednesday, 11 August 2021	9:00am	0	0
Wednesday, 11 August 2021	9:01am	Thursday, 12 August 2021	9:00am	0	0
Thursday, 12 August 2021	9:01am	Friday, 13 August 2021	9:00am	0	0
Friday, 13 August 2021	9:01am	Saturday, 14 August 2021	9:00am	0.2	0.2
Saturday, 14 August 2021	9:01am	Sunday, 15 August 2021	9:00am	0.6	0.2
Sunday, 15 August 2021	9:01am	Monday, 16 August 2021	9:00am	0	0
Monday, 16 August 2021	9:01am	Tuesday, 17 August 2021	9:00am	0.2	0.2
Tuesday, 17 August 2021	9:01am	Wednesday, 18 August 2021	9:00am	1.6	0.2
Wednesday, 18 August 2021	9:01am	Thursday, 19 August 2021	9:00am	0	0
Thursday, 19 August 2021	9:01am	Friday, 20 August 2021	9:00am	0	0
Friday, 20 August 2021	9:01am	Saturday, 21 August 2021	9:00am	0	0
Saturday, 21 August 2021	9:01am	Sunday, 22 August 2021	9:00am	0	0
Sunday, 22 August 2021	9:01am	Monday, 23 August 2021	9:00am	0	0
Monday, 23 August 2021	9:01am	Tuesday, 24 August 2021	9:00am	0.6	0.2
Tuesday, 24 August 2021	9:01am	Wednesday, 25 August 2021	9:00am	7.8	0.8
Wednesday, 25 August 2021	9:01am	Thursday, 26 August 2021	9:00am	0	0
Thursday, 26 August 2021	9:01am	Friday, 27 August 2021	9:00am	0	0
Friday, 27 August 2021	9:01am	Saturday, 28 August 2021	9:00am	0	0
Saturday, 28 August 2021	9:01am	Sunday, 29 August 2021	9:00am	0	0
Sunday, 29 August 2021	9:01am	Monday, 30 August 2021	9:00am	3.2	1.6
Monday, 30 August 2021	9:01am	Tuesday, 31 August 2021	9:00am	0	0
Tuesday, 31 August 2021	9:01am	Wednesday, 1 September 2021	9:00am	0	0
Wednesday, 1 September 2021	9:01am	Thursday, 2 September 2021	9:00am	0	0
Thursday, 2 September 2021	9:01am	Friday, 3 September 2021	9:00am	0	0
Friday, 3 September 2021	9:01am	Saturday, 4 September 2021	9:00am	10	0.4
Saturday, 4 September 2021	9:01am	Sunday, 5 September 2021	9:00am	0	0
Sunday, 5 September 2021	9:01am	Monday, 6 September 2021	9:00am	0.8	0.2
Monday, 6 September 2021	9:01am	Tuesday, 7 September 2021	9:00am	0	0
Tuesday, 7 September 2021	9:01am	Wednesday, 8 September 2021	9:00am	0	0
Wednesday, 8 September 2021	9:01am	Thursday, 9 September 2021	9:00am	0	0
Thursday, 9 September 2021	9:01am	Friday, 10 September 2021	9:00am	0	0
Friday, 10 September 2021	9:01am	Saturday, 11 September 2021	9:00am	0	0
Saturday, 11 September 2021	9:01am	Sunday, 12 September 2021	9:00am	0	0
Sunday, 12 September 2021	9:01am	Monday, 13 September 2021	9:00am	0	0
Monday, 13 September 2021	9:01am	Tuesday, 14 September 2021	9:00am	0	0
Tuesday, 14 September 2021	9:01am	Wednesday, 15 September 2021	9:00am	0	0
Wednesday, 15 September 2021	9:01am	Thursday, 16 September 2021	9:00am	0	0
Thursday, 16 September 2021	9:01am	Friday, 17 September 2021	9:00am	0	0
Friday, 17 September 2021	9:01am	Saturday, 18 September 2021	9:00am	0	0
Saturday, 18 September 2021	9:01am	Sunday, 19 September 2021	9:00am	0	0
Sunday, 19 September 2021	9:01am	Monday, 20 September 2021	9:00am	0	0
Monday, 20 September 2021	9:01am	Tuesday, 21 September 2021	9:00am	5.4	0.6
Tuesday, 21 September 2021	9:01am	Wednesday, 22 September 2021	9:00am	0.8	0.2
Wednesday, 22 September 2021	9:01am	Thursday, 23 September 2021	9:00am	0	0
Thursday, 23 September 2021	9:01am	Friday, 24 September 2021	9:00am	0	0
Friday, 24 September 2021	9:01am	Saturday, 25 September 2021	9:00am	0	0
Saturday, 25 September 2021	9:01am	Sunday, 26 September 2021	9:00am	9.2	0.8
Sunday, 26 September 2021	9:01am	Monday, 27 September 2021	9:00am	7.2	0.4
Monday, 27 September 2021	9:01am	Tuesday, 28 September 2021	9:00am	0	0
Tuesday, 28 September 2021	9:01am	Wednesday, 29 September 2021	9:00am	0	0
Wednesday, 29 September 2021	9:01am	Thursday, 30 September 2021	9:00am	13.4	0.4
Thursday, 30 September 2021	9:01am	Friday, 1 October 2021	9:00am	5.6	0.2
Friday, 1 October 2021	9:01am	Saturday, 2 October 2021	9:00am	9.2	0.4
Saturday, 2 October 2021	9:01am	Sunday, 3 October 2021	9:00am	0	0
Sunday, 3 October 2021	9:01am	Monday, 4 October 2021	9:00am	0	0
Monday, 4 October 2021	9:01am	Tuesday, 5 October 2021	9:00am	0	0
Tuesday, 5 October 2021	9:01am	Wednesday, 6 October 2021	9:00am	0	0
Wednesday, 6 October 2021	9:01am	Thursday, 7 October 2021	9:00am	0	0
Thursday, 7 October 2021	9:01am	Friday, 8 October 2021	9:00am	0	0
Friday, 8 October 2021	9:01am	Saturday, 9 October 2021	9:00am	0	0
Saturday, 9 October 2021	9:01am	Sunday, 10 October 2021	9:00am	0	0
Sunday, 10 October 2021	9:01am	Monday, 11 October 2021	9:00am	0	0
Monday, 11 October 2021	9:01am	Tuesday, 12 October 2021	9:00am	26.2	0.2
Tuesday, 12 October 2021	9:01am	Wednesday, 13 October 2021	9:00am	51.4	0.8
Wednesday, 13 October 2021	9:01am	Thursday, 14 October 2021	9:00am	4.2	0.4
Thursday, 14 October 2021	9:01am	Friday, 15 October 2021	9:00am	0	0
Friday, 15 October 2021	9:01am	Saturday, 16 October 2021	9:00am	0	0
Saturday, 16 October 2021	9:01am	Sunday, 17 October 2021	9:00am	0	0
Sunday, 17 October 2021	9:01am	Monday, 18 October 2021	9:00am	0	0
Monday, 18 October 2021	9:01am	Tuesday, 19 October 2021	9:00am	19.8	1
Tuesday, 19 October 2021	9:01am	Wednesday, 20 October 2021	9:00am	1.2	0.2
Wednesday, 20 October 2021	9:01am	Thursday, 21 October 2021	9:00am	0.2	0.2
Thursday, 21 October 2021	9:01am	Friday, 22 October 2021	9:00am	20.2	2.4
Friday, 22 October 2021	9:01am	Saturday, 23 October 2021	9:00am	0	0
Saturday, 23 October 2021	9:01am	Sunday, 24 October 2021	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)
Sunday, 24 October 2021	9:01am	Monday, 25 October 2021	9:00am	0	0
Monday, 25 October 2021	9:01am	Tuesday, 26 October 2021	9:00am	1.6	0.2
Tuesday, 26 October 2021	9:01am	Wednesday, 27 October 2021	9:00am	0	0
Wednesday, 27 October 2021	9:01am	Thursday, 28 October 2021	9:00am	0	0
Thursday, 28 October 2021	9:01am	Friday, 29 October 2021	9:00am	0	0
Friday, 29 October 2021	9:01am	Saturday, 30 October 2021	9:00am	0	0
Saturday, 30 October 2021	9:01am	Sunday, 31 October 2021	9:00am	0.8	0.2
Sunday, 31 October 2021	9:01am	Monday, 1 November 2021	9:00am	0	0
Monday, 1 November 2021	9:01am	Tuesday, 2 November 2021	9:00am	0	0
Tuesday, 2 November 2021	9:01am	Wednesday, 3 November 2021	9:00am	1.6	0.4
Wednesday, 3 November 2021	9:01am	Thursday, 4 November 2021	9:00am	0	0
Thursday, 4 November 2021	9:01am	Friday, 5 November 2021	9:00am	0	0
Friday, 5 November 2021	9:01am	Saturday, 6 November 2021	9:00am	0	0
Saturday, 6 November 2021	9:01am	Sunday, 7 November 2021	9:00am	0	0
Sunday, 7 November 2021	9:01am	Monday, 8 November 2021	9:00am	3.8	0.4
Monday, 8 November 2021	9:01am	Tuesday, 9 November 2021	9:00am	7.6	1.2
Tuesday, 9 November 2021	9:01am	Wednesday, 10 November 2021	9:00am	0	0
Wednesday, 10 November 2021	9:01am	Thursday, 11 November 2021	9:00am	24.8	1.6
Thursday, 11 November 2021	9:01am	Friday, 12 November 2021	9:00am	2.6	0.2
Friday, 12 November 2021	9:01am	Saturday, 13 November 2021	9:00am	0.6	0.2
Saturday, 13 November 2021	9:01am	Sunday, 14 November 2021	9:00am	0	0
Sunday, 14 November 2021	9:01am	Monday, 15 November 2021	9:00am	0	0
Monday, 15 November 2021	9:01am	Tuesday, 16 November 2021	9:00am	0	0
Tuesday, 16 November 2021	9:01am	Wednesday, 17 November 2021	9:00am	22.6	3.6
Wednesday, 17 November 2021	9:01am	Thursday, 18 November 2021	9:00am	0	0
Thursday, 18 November 2021	9:01am	Friday, 19 November 2021	9:00am	0	0
Friday, 19 November 2021	9:01am	Saturday, 20 November 2021	9:00am	0	0
Saturday, 20 November 2021	9:01am	Sunday, 21 November 2021	9:00am	18.2	1.2
Sunday, 21 November 2021	9:01am	Monday, 22 November 2021	9:00am	8.4	0.6
Monday, 22 November 2021	9:01am	Tuesday, 23 November 2021	9:00am	17.8	1
Tuesday, 23 November 2021	9:01am	Wednesday, 24 November 2021	9:00am	0.4	0.2
Wednesday, 24 November 2021	9:01am	Thursday, 25 November 2021	9:00am	15.6	0.8
Thursday, 25 November 2021	9:01am	Friday, 26 November 2021	9:00am	0.6	0.2
Friday, 26 November 2021	9:01am	Saturday, 27 November 2021	9:00am	6	0.4
Saturday, 27 November 2021	9:01am	Sunday, 28 November 2021	9:00am	0	0
Sunday, 28 November 2021	9:01am	Monday, 29 November 2021	9:00am	0	0
Monday, 29 November 2021	9:01am	Tuesday, 30 November 2021	9:00am	3.8	0.2
Tuesday, 30 November 2021	9:01am	Wednesday, 1 December 2021	9:00am	114.2	1.8
Wednesday, 1 December 2021	9:01am	Thursday, 2 December 2021	9:00am	6.8	0.2
Thursday, 2 December 2021	9:01am	Friday, 3 December 2021	9:00am	1	0.2
Friday, 3 December 2021	9:01am	Saturday, 4 December 2021	9:00am	0	0
Saturday, 4 December 2021	9:01am	Sunday, 5 December 2021	9:00am	18.2	1.6
Sunday, 5 December 2021	9:01am	Monday, 6 December 2021	9:00am	36.6	1
Monday, 6 December 2021	9:01am	Tuesday, 7 December 2021	9:00am	10	0.6
Tuesday, 7 December 2021	9:01am	Wednesday, 8 December 2021	9:00am	0.6	0.2
Wednesday, 8 December 2021	9:01am	Thursday, 9 December 2021	9:00am	8	0.6
Thursday, 9 December 2021	9:01am	Friday, 10 December 2021	9:00am	24	2.2
Friday, 10 December 2021	9:01am	Saturday, 11 December 2021	9:00am	0	0
Saturday, 11 December 2021	9:01am	Sunday, 12 December 2021	9:00am	3.4	0.4
Sunday, 12 December 2021	9:01am	Monday, 13 December 2021	9:00am	4.2	0.6
Monday, 13 December 2021	9:01am	Tuesday, 14 December 2021	9:00am	0	0
Tuesday, 14 December 2021	9:01am	Wednesday, 15 December 2021	9:00am	0	0
Wednesday, 15 December 2021	9:01am	Thursday, 16 December 2021	9:00am	0	0
Thursday, 16 December 2021	9:01am	Friday, 17 December 2021	9:00am	1.4	0.2
Friday, 17 December 2021	9:01am	Saturday, 18 December 2021	9:00am	0.6	0.2
Saturday, 18 December 2021	9:01am	Sunday, 19 December 2021	9:00am	0	0
Sunday, 19 December 2021	9:01am	Monday, 20 December 2021	9:00am	0	0
Monday, 20 December 2021	9:01am	Tuesday, 21 December 2021	9:00am	0	0
Tuesday, 21 December 2021	9:01am	Wednesday, 22 December 2021	9:00am	0	0
Wednesday, 22 December 2021	9:01am	Thursday, 23 December 2021	9:00am	0	0
Thursday, 23 December 2021	9:01am	Friday, 24 December 2021	9:00am	0.4	0.2
Friday, 24 December 2021	9:01am	Saturday, 25 December 2021	9:00am	0.4	0.2
Saturday, 25 December 2021	9:01am	Sunday, 26 December 2021	9:00am	0	0
Sunday, 26 December 2021	9:01am	Monday, 27 December 2021	9:00am	1.8	0.4
Monday, 27 December 2021	9:01am	Tuesday, 28 December 2021	9:00am	40.6	0.8
Tuesday, 28 December 2021	9:01am	Wednesday, 29 December 2021	9:00am	3	0.2
Wednesday, 29 December 2021	9:01am	Thursday, 30 December 2021	9:00am	30.8	1.8
Thursday, 30 December 2021	9:01am	Friday, 31 December 2021	9:00am	5.2	1.2
Friday, 31 December 2021	9:01am	Saturday, 1 January 2022	9:00am	29	2.4
Saturday, 1 January 2022	9:01am	Sunday, 2 January 2022	9:00am	6.8	1.2
Sunday, 2 January 2022	9:01am	Monday, 3 January 2022	9:00am	3.4	0.4
Monday, 3 January 2022	9:01am	Tuesday, 4 January 2022	9:00am	10	0.2
Tuesday, 4 January 2022	9:01am	Wednesday, 5 January 2022	9:00am	10.2	0.8
Wednesday, 5 January 2022	9:01am	Thursday, 6 January 2022	9:00am	11.4	1.2
Thursday, 6 January 2022	9:01am	Friday, 7 January 2022	9:00am	1.8	0.6
Friday, 7 January 2022	9:01am	Saturday, 8 January 2022	9:00am	0	0
Saturday, 8 January 2022	9:01am	Sunday, 9 January 2022	9:00am	0	0
Sunday, 9 January 2022	9:01am	Monday, 10 January 2022	9:00am	3.2	0.4
Monday, 10 January 2022	9:01am	Tuesday, 11 January 2022	9:00am	0.2	0.2
Tuesday, 11 January 2022	9:01am	Wednesday, 12 January 2022	9:00am	0	0
Wednesday, 12 January 2022	9:01am	Thursday, 13 January 2022	9:00am	0	0
Thursday, 13 January 2022	9:01am	Friday, 14 January 2022	9:00am	0	0
Friday, 14 January 2022	9:01am	Saturday, 15 January 2022	9:00am	0	0
Saturday, 15 January 2022	9:01am	Sunday, 16 January 2022	9:00am	0	0
Sunday, 16 January 2022	9:01am	Monday, 17 January 2022	9:00am	11.2	0.4
Monday, 17 January 2022	9:01am	Tuesday, 18 January 2022	9:00am	0	0
Tuesday, 18 January 2022	9:01am	Wednesday, 19 January 2022	9:00am	0	0
Wednesday, 19 January 2022	9:01am	Thursday, 20 January 2022	9:00am	0	0
Thursday, 20 January 2022	9:01am	Friday, 21 January 2022	9:00am	17.8	0.4
Friday, 21 January 2022	9:01am	Saturday, 22 January 2022	9:00am	24.4	1
Saturday, 22 January 2022	9:01am	Sunday, 23 January 2022	9:00am	13.4	1
Sunday, 23 January 2022	9:01am	Monday, 24 January 2022	9:00am	30.8	0.8
Monday, 24 January 2022	9:01am	Tuesday, 25 January 2022	9:00am	0.8	0.2
Tuesday, 25 January 2022	9:01am	Wednesday, 26 January 2022	9:00am	0.6	0.2
Wednesday, 26 January 2022	9:01am	Thursday, 27 January 2022	9:00am	7.6	0.2
Thursday, 27 January 2022	9:01am	Friday, 28 January 2022	9:00am	0	0
Friday, 28 January 2022	9:01am	Saturday, 29 January 2022	9:00am	6.6	0.2
Saturday, 29 January 2022	9:01am	Sunday, 30 January 2022	9:00am	4.6	0.4
Sunday, 30 January 2022	9:01am	Monday, 31 January 2022	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 GUAGE CONTINUOUS RAINFALL MONITORING					
Period From		Period To		Daily Rain	
Date	Time	Date	Time	Total (mm)	Max Intensity (mm/min)
Monday, 31 January 2022	9:01am	Tuesday, 1 February 2022	9:00am	6.6	1
Tuesday, 1 February 2022	9:01am	Wednesday, 2 February 2022	9:00am	0	0
Wednesday, 2 February 2022	9:01am	Thursday, 3 February 2022	9:00am	0	0
Thursday, 3 February 2022	9:01am	Friday, 4 February 2022	9:00am	54.4	2.8
Friday, 4 February 2022	9:01am	Saturday, 5 February 2022	9:00am	58	0.6
Saturday, 5 February 2022	9:01am	Sunday, 6 February 2022	9:00am	10.6	0.6
Sunday, 6 February 2022	9:01am	Monday, 7 February 2022	9:00am	5	0.8
Monday, 7 February 2022	9:01am	Tuesday, 8 February 2022	9:00am	3	0.8
Tuesday, 8 February 2022	9:01am	Wednesday, 9 February 2022	9:00am	5.2	0.4
Wednesday, 9 February 2022	9:01am	Thursday, 10 February 2022	9:00am	1.4	0.2
Thursday, 10 February 2022	9:01am	Friday, 11 February 2022	9:00am	0	0
Friday, 11 February 2022	9:01am	Saturday, 12 February 2022	9:00am	0	0
Saturday, 12 February 2022	9:01am	Sunday, 13 February 2022	9:00am	6.8	1
Sunday, 13 February 2022	9:01am	Monday, 14 February 2022	9:00am	4.8	0.4
Monday, 14 February 2022	9:01am	Tuesday, 15 February 2022	9:00am	0.8	0.2
Tuesday, 15 February 2022	9:01am	Wednesday, 16 February 2022	9:00am	4	0.4
Wednesday, 16 February 2022	9:01am	Thursday, 17 February 2022	9:00am	0.4	0.2
Thursday, 17 February 2022	9:01am	Friday, 18 February 2022	9:00am	0	0
Friday, 18 February 2022	9:01am	Saturday, 19 February 2022	9:00am	0	0
Saturday, 19 February 2022	9:01am	Sunday, 20 February 2022	9:00am	1	0.2
Sunday, 20 February 2022	9:01am	Monday, 21 February 2022	9:00am	4	0.4
Monday, 21 February 2022	9:01am	Tuesday, 22 February 2022	9:00am	0	0
Tuesday, 22 February 2022	9:01am	Wednesday, 23 February 2022	9:00am	8.8	1.4
Wednesday, 23 February 2022	9:01am	Thursday, 24 February 2022	9:00am	0	0
Thursday, 24 February 2022	9:01am	Friday, 25 February 2022	9:00am	117.6	2
Friday, 25 February 2022	9:01am	Saturday, 26 February 2022	9:00am	1	0.2
Saturday, 26 February 2022	9:01am	Sunday, 27 February 2022	9:00am	1.4	0.6
Sunday, 27 February 2022	9:01am	Monday, 28 February 2022	9:00am	49.2	1
Monday, 28 February 2022	9:01am	Tuesday, 1 March 2022	9:00am	254.6	1.8
Tuesday, 1 March 2022	9:01am	Wednesday, 2 March 2022	9:00am	98.2	1.8
Wednesday, 2 March 2022	9:01am	Thursday, 3 March 2022	9:00am	5.8	0.6
Thursday, 3 March 2022	9:01am	Friday, 4 March 2022	9:00am	0.2	0.2
Friday, 4 March 2022	9:01am	Saturday, 5 March 2022	9:00am	0.6	0.2
Saturday, 5 March 2022	9:01am	Sunday, 6 March 2022	9:00am	17.2	1.4
Sunday, 6 March 2022	9:01am	Monday, 7 March 2022	9:00am	12	0.4
Monday, 7 March 2022	9:01am	Tuesday, 8 March 2022	9:00am	48.4	3
Tuesday, 8 March 2022	9:01am	Wednesday, 9 March 2022	9:00am	14	2
Wednesday, 9 March 2022	9:01am	Thursday, 10 March 2022	9:00am	0	0
Thursday, 10 March 2022	9:01am	Friday, 11 March 2022	9:00am	4.8	0.4
Friday, 11 March 2022	9:01am	Saturday, 12 March 2022	9:00am	21.6	0.8
Saturday, 12 March 2022	9:01am	Sunday, 13 March 2022	9:00am	5	0.2
Sunday, 13 March 2022	9:01am	Monday, 14 March 2022	9:00am	1.4	0.4
Monday, 14 March 2022	9:01am	Tuesday, 15 March 2022	9:00am	7.6	0.6
Tuesday, 15 March 2022	9:01am	Wednesday, 16 March 2022	9:00am	10.2	0.6
Wednesday, 16 March 2022	9:01am	Thursday, 17 March 2022	9:00am	4.8	0.6
Thursday, 17 March 2022	9:01am	Friday, 18 March 2022	9:00am	3	0.4
Friday, 18 March 2022	9:01am	Saturday, 19 March 2022	9:00am	0.8	0.2
Saturday, 19 March 2022	9:01am	Sunday, 20 March 2022	9:00am	0	0
Sunday, 20 March 2022	9:01am	Monday, 21 March 2022	9:00am	7.2	1.4
Monday, 21 March 2022	9:01am	Tuesday, 22 March 2022	9:00am	0.2	0.2
Tuesday, 22 March 2022	9:01am	Wednesday, 23 March 2022	9:00am	0	0
Wednesday, 23 March 2022	9:01am	Thursday, 24 March 2022	9:00am	0	0
Thursday, 24 March 2022	9:01am	Friday, 25 March 2022	9:00am	0.8	0.2
Friday, 25 March 2022	9:01am	Saturday, 26 March 2022	9:00am	43.8	1.6
Saturday, 26 March 2022	9:01am	Sunday, 27 March 2022	9:00am	16.6	0.8
Sunday, 27 March 2022	9:01am	Monday, 28 March 2022	9:00am	93.2	1.4
Monday, 28 March 2022	9:01am	Tuesday, 29 March 2022	9:00am	16.2	0.8
Tuesday, 29 March 2022	9:01am	Wednesday, 30 March 2022	9:00am	83	1.2
Wednesday, 30 March 2022	9:01am	Thursday, 31 March 2022	9:00am	233.6	2
Thursday, 31 March 2022	9:01am	Friday, 1 April 2022	9:00am	11.2	1.6
Friday, 1 April 2022	9:01am	Saturday, 2 April 2022	9:00am	0.4	0.2
Saturday, 2 April 2022	9:01am	Sunday, 3 April 2022	9:00am	0.2	0.2
Sunday, 3 April 2022	9:01am	Monday, 4 April 2022	9:00am	0	0
Monday, 4 April 2022	9:01am	Tuesday, 5 April 2022	9:00am	2.2	0.2
Tuesday, 5 April 2022	9:01am	Wednesday, 6 April 2022	9:00am	0.2	0.2
Wednesday, 6 April 2022	9:01am	Thursday, 7 April 2022	9:00am	0	0
Thursday, 7 April 2022	9:01am	Friday, 8 April 2022	9:00am	8.4	1.8
Friday, 8 April 2022	9:01am	Saturday, 9 April 2022	9:00am	4.2	1.2
Saturday, 9 April 2022	9:01am	Sunday, 10 April 2022	9:00am	10	0.8
Sunday, 10 April 2022	9:01am	Monday, 11 April 2022	9:00am	1.4	0.4
Monday, 11 April 2022	9:01am	Tuesday, 12 April 2022	9:00am	0.8	0.2
Tuesday, 12 April 2022	9:01am	Wednesday, 13 April 2022	9:00am	0	0
Wednesday, 13 April 2022	9:01am	Thursday, 14 April 2022	9:00am	12.4	0.8
Thursday, 14 April 2022	9:01am	Friday, 15 April 2022	9:00am	14.6	0.6
Friday, 15 April 2022	9:01am	Saturday, 16 April 2022	9:00am	4.6	1
Saturday, 16 April 2022	9:01am	Sunday, 17 April 2022	9:00am	6.6	0.8
Sunday, 17 April 2022	9:01am	Monday, 18 April 2022	9:00am	4.2	1
Monday, 18 April 2022	9:01am	Tuesday, 19 April 2022	9:00am	0.2	0.2
Tuesday, 19 April 2022	9:01am	Wednesday, 20 April 2022	9:00am	0	0
Wednesday, 20 April 2022	9:01am	Thursday, 21 April 2022	9:00am	0	0
Thursday, 21 April 2022	9:01am	Friday, 22 April 2022	9:00am	0	0
Friday, 22 April 2022	9:01am	Saturday, 23 April 2022	9:00am	2.2	1.2
Saturday, 23 April 2022	9:01am	Sunday, 24 April 2022	9:00am	12	0.6
Sunday, 24 April 2022	9:01am	Monday, 25 April 2022	9:00am	1.8	0.4
Monday, 25 April 2022	9:01am	Tuesday, 26 April 2022	9:00am	7.2	0.6
Tuesday, 26 April 2022	9:01am	Wednesday, 27 April 2022	9:00am	0.2	0.2
Wednesday, 27 April 2022	9:01am	Thursday, 28 April 2022	9:00am	2.2	0.4
Thursday, 28 April 2022	9:01am	Friday, 29 April 2022	9:00am	0.8	0.2
Friday, 29 April 2022	9:01am	Saturday, 30 April 2022	9:00am	11.2	1.6
Saturday, 30 April 2022	9:01am	Sunday, 1 May 2022	9:00am	1	0.4
Sunday, 1 May 2022	9:01am	Monday, 2 May 2022	9:00am	10.6	0.4
Monday, 2 May 2022	9:01am	Tuesday, 3 May 2022	9:00am	20	1.4
Tuesday, 3 May 2022	9:01am	Wednesday, 4 May 2022	9:00am	4	0.4
Wednesday, 4 May 2022	9:01am	Thursday, 5 May 2022	9:00am	13.4	0.4
Thursday, 5 May 2022	9:01am	Friday, 6 May 2022	9:00am	0	0
Friday, 6 May 2022	9:01am	Saturday, 7 May 2022	9:00am	3.6	0.2

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
01-Jul-21	3	PM10	<0.1	5.0	23-Sep-21	13-Aug-21	Sample and bag mixed up
31-Jul-21	3	PM10	5.0	11.9	23-Sep-21	13-Aug-21	Sample and bag mixed up