



Environmental Monitoring Report V1

Condong Biomass Power Plant 153 McLeod Street Condong NSW

Licencee Cape Byron Management Pty Ltd
Address 153 McLeod Street Condong NSW
EPL No 20424 <http://www.epa.nsw.gov.au/prpoeoapp/>

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

Sampling Point:
 Licence
 Location
 EPL No
 Parameters Monitored
 Frequency & Method

Monitoring Point 1 - No 1 Boiler Stack Emissions

Cape Byron Management Pty Ltd
 Condong Cogeneration Power Plant
 20424 www.environment.nsw.gov.au
 see individual parameters in table
 Annually in accordance with EPA protocols



Limits see individual parameters in table

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			Results Table						
Test Number			AE14632	AE14632	AE14761	AE14992	AE15185	AE15315	AE15396
Sampling Date			14/11/2022	14/12/2022	7/02/2023	18/05/2023	14/09/2023	11/12/2023	17/01/2024
Date Received			25/11/2022	11/01/2023	21/03/2023	2/06/2023	4/10/2023	31/01/2024	12/02/2024
Date Published			30/11/2022	25/01/2023	22/03/2023	14/06/2023	1/11/2023	7/02/2024	21/02/2024

Measured Parameters dry @ STP and corrected to 7% O ₂	Units	Concentration Limit							
Average stack gas temperature	°C	Not Applicable	61.70	57.00	59.80	59.60	59.80	58.30	63.30
Average velocity at sampling plane	m/s	Not Applicable	15.80	15.80	15.40	15.40	24.00	20.40	18.90
Dry Gas Volumetric Flowrate	m ³ /sec	Not Applicable	67.60	69.75	67.33	61.11	106.60	94.30	82.83
Dry Gas Density	kg/m ³	Not Applicable	1.34	1.34	1.33	1.31	1.34	1.34	1.33
Molecular Weight of Stack Gases	g/g mole	Not Applicable	30.00	29.80	29.60	29.30	30.00	30.00	29.90
Moisture content	%	Not Applicable	16.80	16.80	17.1	11.5	15.4	11.4	14.2
Concentration of carbon dioxide	%	Not Applicable	9.85	8.03	5.88	4.27	9.88	9.53	8.66
Total Solid Particles	mg/m ³	100.00	99.40	98.00	29.40	90.00	58.90	70.90	38.80
Sulphuric Acid Mist & Sulphur Trioxide as SO ₃	mg/m ³	30.00	6.30	5.33	2.29	2.60	16.30	5.56	7.50
Nitrogen Oxides (NO _x)	mg/m ³	500.00	191.00	211.00	156.00	261.00	373.00	271.00	174.00

Sampling Point: **Monitoring Point 2 - Ambient Air Monitoring Fuel Stockpile**
 Licencee Cape Byron Management Pty Ltd
 Location Condong Cogeneration Power Plant
 EPL No 20424
 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
04-Jan-22	21-Jan-22	28-Jan-22	7.79	
01-Feb-22	NA	22-Apr-22	NA	Flood damage to plant operations
01-Mar-22	NA	22-Apr-22	NA	Bottles flood damaged and not serviceable, new bottles set 08/04/2022, plant not operational
05-May-22	09-May-22	18-May-22	4.52	Fine org. matter
06-Jun-22	17-Jun-22	29-Jun-22	0.56	Organic matter
04-Jul-22	08-Aug-22	10-Aug-22	3.03	Cloudy
08-Aug-22	NA	NA	NA	Bottle smashed at EAL
06-Sep-22	12-Sep-22	21-Sep-22	2.16	Organic matter
06-Oct-22	13-Oct-22	19-Oct-22	1.93	
02-Nov-22	04-Nov-22	16-Nov-22	0.90	
07-Dec-22	20-Dec-22	25-Jan-23	2.03	Fine org. matter
11-Jan-23	12-Jan-23	25-Jan-23	2.64	dead beetle
03-Feb-23	10-Feb-23	22-Feb-23	0.73	
08-Mar-23	15-Mar-23	22-Mar-23	4.91	bugs, fine org. matter
03-Apr-23	14-Apr-23	19-Apr-23	3.40	fine org. matter
04-Apr-23	11-May-23	17-May-23	3.88	small spider, fine org. matter
02-Jun-23	07-Jun-23	28-Jun-23	2.75	Fine Organic Matter
03-Jul-23	10-Jul-23	12-Jul-23	6.36	Fine org. matter, cloudy
07-Aug-23	10-Aug-23	23-Aug-23	4.62	Fine org. matter, cloudy
04-Aug-23	19-Sep-23	20-Sep-23	5.08	Ash, fine org. matter, cloudy, brown
03-Oct-23	11-Oct-23	19-Oct-23	4.87	Fine org. matter
02-Nov-23	08-Nov-23	16-Nov-23	2.87	Org. matter, cloudy, brown
04-Dec-23	13-Dec-23	13-Dec-23	6.93	Bugs, algae, fine org. matter
04-Jan-24	12-Jan-24	24-Jan-24	2.64	Dead beetle
05-Feb-24	09-Feb-24	21-Feb-24	9.32	Bugs, fine org. matter
04-Mar-24	08-Mar-24	20-Mar-24	1.48	

Sampling Point: Monitoring Point 2 - Ambient Air Monitoring Fuel Stockpile
 Licencee Cape Byron Management Pty Ltd
 Location Condong Cogeneration Power Plant
 EPL No 20424
 Parameters Monitored PM10
 Monitoring Frequency Once every 6 days when operating at stockpile
 Limits Not Applicable
 Comments



Date Sample Collected	Date Received	Date Published	Results (ug/m ³)	Notes
03-Jan-23	19-Jan-23	25-Jan-23	12.2	
09-Jan-23	01-Mar-23	08-Mar-23	9.3	
15-Jan-23	01-Mar-23	08-Mar-23	6.2	
21-Jan-23	01-Mar-23	08-Mar-23	11.4	
27-Jan-23	01-Mar-23	08-Mar-23	15.4	
02-Feb-23	01-Mar-23	08-Mar-23	12.4	
08-Feb-23	20-Mar-23	22-Mar-23	48.4	
14-Feb-23	20-Mar-23	22-Mar-23	25.2	
20-Feb-23	20-Mar-23	22-Mar-23	9.0	
26-Feb-23	20-Mar-23	22-Mar-23	11.0	
04-Mar-23	20-Mar-23	22-Mar-23	26.2	
10-Mar-23	14-Apr-23	19-Apr-23	41.1	
16-Mar-23	14-Apr-23	19-Apr-23	28.6	
22-Mar-23	14-Apr-23	19-Apr-23	14.0	
28-Mar-23	14-Apr-23	19-Apr-23	16.3	
03-Apr-23	14-Apr-23	19-Apr-23	9.2	
09-Apr-23	20-Jun-23	28-Jun-23	11.1	
15-Apr-23	20-Jun-23	28-Jun-23	40.6	
21-Apr-23	20-Jun-23	28-Jun-23	47.4	
27-Apr-23	20-Jun-23	28-Jun-23	9.1	
03-May-23	20-Jun-23	28-Jun-23	50.4	
09-May-23	20-Jun-23	28-Jun-23	59.4	
15-May-23	20-Jun-23	28-Jun-23	7.3	
21-May-23	20-Jun-23	28-Jun-23	14.3	
27-May-23	20-Jun-23	28-Jun-23	23.7	
02-Jun-23	20-Jun-23	28-Jun-23	44.9	
08-Jun-23	14-Jul-23	26-Jul-23	18.4	
14-Jun-23	14-Jul-23	26-Jul-23	21.9	
20-Jun-23	14-Jul-23	26-Jul-23	40.8	
26-Jun-23	14-Jul-23	26-Jul-23	12.4	
02-Jul-23	14-Jul-23	26-Jul-23	30.3	
08-Jul-23	21-Aug-23	23-Aug-23	16.3	
14-Jul-23	21-Aug-23	23-Aug-23	31.2	
20-Jul-23	21-Aug-23	23-Aug-23	14.6	
26-Jul-23	21-Aug-23	23-Aug-23	26.7	
01-Aug-23	21-Aug-23	23-Aug-23	37.1	
07-Aug-23	21-Aug-23	23-Aug-23	8.1	
13-Aug-23	18-Sep-23	20-Sep-23	29.2	
19-Aug-23	18-Sep-23	20-Sep-23	25.0	
25-Aug-23	18-Sep-23	20-Sep-23	36.0	
31-Aug-23	18-Sep-23	20-Sep-23	15.3	
06-Sep-23	11-Oct-23	19-Oct-23	15.8	
12-Sep-23	11-Oct-23	19-Oct-23	39.3	
18-Sep-23	11-Oct-23	19-Oct-23	11.5	
24-Sep-23	11-Oct-23	19-Oct-23	24.6	
30-Sep-23	11-Oct-23	19-Oct-23	13.6	
06-Oct-23	16-Nov-23	29-Nov-23	15.9	
12-Oct-23	16-Nov-23	29-Nov-23	31.4	
18-Oct-23	16-Nov-23	29-Nov-23	65.1	
24-Oct-23	16-Nov-23	29-Nov-23	35.7	
30-Oct-23	16-Nov-23	29-Nov-23	NA	Paper damaged on retrieval due to wind gust
05-Nov-23	21-Dec-23	27-Dec-23	10.6	
11-Nov-23	21-Dec-23	27-Dec-23	13.9	
17-Nov-23	21-Dec-23	27-Dec-23	50.5	
23-Nov-23	21-Dec-23	27-Dec-23	17.6	
29-Nov-23	21-Dec-23	27-Dec-23	13.6	
05-Dec-23	21-Dec-23	27-Dec-23	35.7	
11-Dec-23	05-Feb-24	07-Feb-24	17.8	
17-Dec-23	05-Feb-24	07-Feb-24	17.9	
23-Dec-23	05-Feb-24	07-Feb-24	10.7	
29-Dec-23	05-Feb-24	07-Feb-24	14.6	
03-Jan-24	05-Feb-24	07-Feb-24	17.2	
09-Jan-24	05-Feb-24	07-Feb-24	11.0	
15-Jan-24	04-Mar-24	06-Mar-24	11.5	
21-Jan-24	04-Mar-24	06-Mar-24	14.4	
27-Jan-24	04-Mar-24	06-Mar-24	24.4	
02-Feb-24	15-Mar-24	20-Mar-24	22.3	
08-Feb-24	15-Mar-24	20-Mar-24	8.8	
14-Feb-24	15-Mar-24	20-Mar-24	51.7	
20-Feb-24	15-Mar-24	20-Mar-24	22.0	
26-Feb-24	15-Mar-24	20-Mar-24	17.7	
03-Mar-24	18-Apr-24	01-May-24	15.1	
09-Mar-24	18-Apr-24	01-May-24	21.5	
15-Mar-24	18-Apr-24	01-May-24	29.2	
21-Mar-24	18-Apr-24	01-May-24	21.6	
27-Mar-24	18-Apr-24	01-May-24	6.8	

Sampling Point: Monitoring Point 4 - Ambient Air Monitoring North of Bowling Club
 Licence Cape Byron Management Pty Ltd
 Location Condong Cogeneration Power Plant
 EPL No 20424
 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
04-Jan-22	21-Jan-22	28-Jan-22	3.42	Fine org. matter
01-Feb-22	NA	22-Apr-22	NA	Flood damage to plant operations
01-Mar-22	NA	22-Apr-22	NA	Bottles flood damaged and not serviceable, new bottles set 08/04/2022
05-May-22	09-May-22	18-May-22	1.06	Fine org. matter
06-Jun-22	17-Jun-22	29-Jun-22	0.88	Organic matter
04-Jul-22	08-Aug-22	10-Aug-22	2.86	Bugs, grass Fine Org.Matter
08-Aug-22	12-Aug-22	24-Aug-22	1.22	Dead worm. Fine Org.Matter, Large Org. Matter
06-Sep-22	12-Sep-22	21-Sep-22	2.27	Org. Matter
06-Oct-22	13-Oct-22	19-Oct-22	3.92	Fine Org. Matter
02-Nov-22	04-Nov-22	16-Nov-22	1.43	
07-Dec-22	20-Dec-02	25-Jan-23	3.70	Dead bugs, fine Org. matter
11-Jan-23	12-Jan-23	25-Jan-23	4.55	Fine org. matter
03-Feb-23	10-Feb-23	22-Feb-23	0.18	Org. Matter
08-Mar-23	15-Mar-23	22-Mar-23	0.58	Org. Matter
03-Apr-23	04-Apr-23	19-Apr-23	0.26	Org. Matter
04-Apr-23	11-May-23	17-May-23	5.40	fine org. matter, cloudy
02-Jun-23	07-Jun-23	28-Jun-23	0.91	dead wasp, fine organic matter
03-Jul-23	10-Jul-23	12-Jul-23	1.80	Bugs, org. matter
03-Jul-23	10-Jul-23	12-Jul-23	2.80	Bugs, org. matter
07-Aug-23	10-Aug-23	23-Aug-23	0.60	Fine org. matter, cloudy
04-Aug-23	19-Sep-23	20-Sep-23	1.70	Spider, algae, fine org. matter
03-Oct-23	11-Oct-23	19-Oct-23	4.09	Spider, algae, fine org. matter
02-Nov-23	08-Nov-23	16-Nov-23	10.89	Fine org. matter, algae, seeds, ants, cloudy, yellow
04-Dec-23	13-Dec-23	13-Dec-23	28.01	Ants, bugs, algae, fine org. matter, cloudy
04-Jan-24	12-Jan-24	24-Jan-24	4.55	Fine org. matter
05-Feb-24	09-Feb-24	21-Feb-24	5.86	Algae, twig fine org. matter
04-Mar-24	08-Mar-24	20-Mar-24	1.43	algae, fine org. matter, cloudy, brown

Sampling Point: Monitoring Point 5 - Ambient Air Monitoring South of Mill

Licencee Cape Byron Management Pty Ltd
 Location Condong Cogeneration Power Plant
 EPL No 20424

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
04-Jan-22	21-Jan-22	28-Jan-22	5.07	Fine org. matter
NA	01-Feb-22	22-Apr-22	NA	Flood damage to plant operations
NA	01-Mar-22	22-Apr-22	NA	Bottles flood damaged and not serviceable, new bottles set 08/04/2021
05-May-22	09-May-22	18-May-22	0.92	Fine org. matter
06-Jun-22	17-Jun-22	29-Jun-22	1.61	Organic matter & algae
04-Jul-22	08-Aug-22	10-Aug-22	2.52	Grasshopper, spider, Org.Matter, Cloudy
08-Aug-22	12-Aug-22	24-Aug-22	1.46	Fine Org. Matter
06-Sep-22	12-Aug-22	21-Sep-22	5.06	Yellow, Cloudy
06-Oct-22	13-Oct-22	19-Oct-22	5.45	Fine Org. Matter
02-Nov-22	04-Nov-22	16-Nov-22	4.02	bugs Org. Matter
07-Dec-02	20-Dec-02	25-Jan-23	1.51	Org. Matter
11-Jan-23	12-Jan-23	25-Jan-23	4.85	Fine org. matter
03-Feb-23	10-Feb-23	22-Feb-23	0.96	small seeds, org. matter
08-Mar-23	15-Mar-23	22-Mar-23	0.73	dead bugs, seeds, fine org. matter, yellow
03-Apr-23	04-Apr-23	22-Mar-23	2.43	Fine Org. Matter
04-Apr-23	11-May-23	17-May-23	1.23	fine org. matter
02-Jun-23	07-Jun-23	28-Jun-23	6.31	Fine org. matter, large org. matter
03-Jul-23	10-Jul-23	12-Jul-23	2.24	Seeds, fine org. matter
07-Aug-23	10-Aug-23	23-Aug-23	2.79	Bark/ spider, fine org. matter, cloudy
04-Aug-23	19-Sep-23	20-Sep-23	3.79	Ash, bugs, fine org. matter, cloudy, brown
03-Oct-23	11-Oct-23	19-Oct-23	4.61	Org. matter, cloudy
02-Nov-23	08-Nov-23	16-Nov-23	5.00	Fine org. matter, grass
04-Dec-23	13-Dec-23	13-Dec-23	10.33	Algae, bugs, org. matter, cloudy, yellow
04-Jan-24	12-Jan-24	24-Jan-24	4.85	Small seeds, fine org. matter, cloudy
05-Feb-24	09-Feb-24	21-Feb-24	3.51	Ants, twig, fine org. matter
04-Mar-24	08-Mar-24	20-Mar-24	0.71	

Sampling Point: Monitoring Point 6 - O₂ Boiler Prior to Primary Air Heater
Licence: Cape Byron Management Pty Ltd
Location: Condona Co-generation Power Plant
EPL No: 20424
Parameter Monitored: Oxygen
Frequency & Method: Continuous Online Sampling
Limit: No Limits Prescribed
Comments: The results in the table provide a summary of the minimum, maximum and mean daily values for the period indicated



MONITORING PERIOD			Oxygen (%)			Notes
Date Start	Date Finish	Date Published	Minimum Value	Maximum Value	Mean Value	
2-Jan-23	8-Jan-23	25-Jan-23	2.03	20.36	12.41	Boiler offline 02/01/2023, 03/01/2023, 06/01/2023, 07/01/2023, 08/01/2023
9-Jan-23	15-Jan-23	25-Jan-23	1.43	20.28	14.48	Boiler offline 09/01/2023, 10/01/2023, 11/01/2023, 13/01/2023, 14/01/2023, 15/01/2023
16-Jan-23	22-Jan-23	25-Jan-23	0.59	20.18	15.18	Boiler offline 16/01/2023, 17/01/2023, 18/01/2023, 19/01/2023, 20/01/2023, 22/01/2023
23-Jan-23	29-Jan-23	8-Feb-23	1.93	20.00	16.90	Boiler offline 23/01/2023, 24/01/2023, 24/01/2023, 25/01/2023, 26/01/2023, 27/01/2023, 28/01/2023, 29/01/2023
30-Jan-23	5-Feb-23	8-Feb-23	2.46	19.99	14.02	Boiler offline 30/01/2023, 01/02/2023, 02/02/2023, 03/02/2023, 04/02/2023, 05/02/2023
6-Feb-23	12-Feb-23	22-Feb-23	2.48	20.03	11.00	Boiler offline 06/02/2023, 10/02/2023, 11/02/2023, 12/02/2023
13-Feb-23	19-Feb-23	22-Feb-23	-0.77	20.33	14.88	Boiler offline 13/02/2023, 14/02/2023, 15/02/2023, 16/02/2023, 17/02/2023, 18/02/2023, 19/02/2023
20-Feb-23	26-Feb-23	8-Mar-23	1.73	20.12	11.05	Boiler offline 20/02/2023, 23/02/2023, 24/02/2023, 25/02/2023, 26/02/2023
27-Feb-23	5-Mar-23	8-Mar-23	0.33	20.14	9.52	Boiler offline 27/02/2023, 03/03/2023, 04/03/2023, 05/03/2023
6-Mar-23	12-Mar-23	22-Mar-23	NA	NA	NA	Factory shut down 06/03/2023-19/03/2023 for annual shut down
13-Mar-23	19-Mar-23	22-Mar-23	NA	NA	NA	Factory shut down 06/03/2023-19/03/2023 for annual shut down
20-Mar-23	26-Mar-23	5-Apr-23	0.86	20.00	8.44	Boiler offline 20/03/2023, 26/03/2023
27-Mar-23	2-Apr-23	5-Apr-23	0.86	20.22	8.01	Boiler offline 27/03/2023, 01/04/2023, 02/04/2023
3-Apr-23	9-Apr-23	19-Apr-23	1.60	19.89	10.74	Boiler offline 07/04/2023, 08/04/2023, 09/04/2023
10-Apr-23	16-Apr-23	19-Apr-23	2.38	20.54	11.73	Boiler offline 10/04/2023, 15/04/2023, 16/04/2023
17-Apr-23	23-Apr-23	3-May-23	1.49	19.92	10.06	Boiler offline 21/04/2023, 22/04/2023, 24/04/2023
24-Apr-23	30-Apr-23	3-May-23	1.00	20.21	12.48	Boiler offline 24/04/2023, 25/04/2023, 26/04/2023, 30/05/2023
1-May-23	7-May-23	17-May-23	1.61	20.48	11.11	Boiler offline 01/05/2023, 03/05/2023, 04/05/2023, 07/05/2023
8-May-23	14-May-23	17-May-23	1.92	20.51	11.13	Boiler offline 08/05/2023, 12/05/2023, 13/05/2023
15-May-23	21-May-23	31-May-23	2.92	20.37	17.92	Boiler offline 15/05/2023, 16/05/2023, 17/05/2023, 18/05/2023, 19/05/2023, 20/05/2023, 21/05/2023
22-May-23	28-May-23	31-May-23	1.83	20.41	12.48	Boiler offline 22/05/2023, 23/05/2023, 27/05/2023, 28/05/2023
29-May-23	4-Jun-23	14-Jun-23	2.60	20.42	11.02	Boiler offline 29/05/2023, 30/05/2023, 02/06/2023, 03/06/2023, 04/06/2023
5-Jun-23	11-Jun-23	14-Jun-23	2.32	19.96	10.81	Boiler offline 05/06/2023, 06/06/2023, 10/06/2023, 11/06/2023
12-Jun-23	18-Jun-23	28-Jun-23	-0.77	21.07	15.00	Boiler offline 12/06/2023, 15/06/2023, 16/06/2023, 17/06/2023
19-Jun-23	25-Jun-23	28-Jun-23	1.57	20.62	10.68	Boiler offline 19/06/2023, 23/06/2023, 24/06/2023, 25/06/2023
26-Jun-23	2-Jul-23	12-Jul-23	-0.02	20.35	11.39	Boiler offline 26/06/2023, 30/06/2023, 01/07/2023, 02/07/2024
3-Jul-23	9-Jul-23	12-Jul-23	0.00	20.27	6.61	Boiler offline 03/07/2023, 05/07/2023, 06/07/2023
10-Jul-23	16-Jul-23	26-Jul-23	0.00	6.86	1.94	
17-Jul-23	23-Jul-23	26-Jul-23	0.00	6.86	2.28	
24-Jul-23	30-Jul-23	9-Aug-23	0.00	5.20	1.68	
31-Jul-23	6-Aug-23	9-Aug-23	-0.77	20.38	3.90	Boiler offline 01/08/2023
7-Aug-23	13-Aug-23	23-Aug-23	0.00	13.69	2.04	
14-Aug-23	20-Aug-23	23-Aug-23	0.00	19.85	2.14	Boiler shutdown 17/08/2023 - 12:45-14:15
21-Aug-23	27-Aug-23	6-Sep-23	0.00	7.11	1.89	
28-Aug-23	3-Sep-23	6-Sep-23	0.00	11.79	2.52	
4-Sep-23	10-Sep-23	20-Sep-23	-0.77	20.71	10.01	Boiler shutdown 06/09/2023 - 08/09/2023
11-Sep-23	17-Sep-23	20-Sep-23	0.00	8.79	2.57	
18-Sep-23	24-Sep-23	5-Oct-23	0.00	13.26	3.26	
25-Sep-23	1-Oct-23	5-Oct-23	0.01	19.81	2.96	Boiler shutdown 25/09/2023
2-Oct-23	8-Oct-23	19-Oct-23	0.00	15.70	3.05	
9-Oct-23	15-Oct-23	19-Oct-23	0.00	8.87	3.24	
16-Oct-23	22-Oct-23	1-Nov-23	-0.77	20.38	3.94	Boiler offline 16/10 & 19/10
23-Oct-23	29-Oct-23	1-Nov-23	0.00	20.16	5.10	Boiler offline 28/10 & 29/10
30-Oct-23	5-Nov-23	16-Nov-23	0.01	19.96	7.58	Boiler offline 04/11 & 05/11
6-Nov-23	12-Nov-23	16-Nov-23	1.58	20.20	13.30	Boiler offline 06/11, 07/11, 10/11, 11/11, 12/11
13-Nov-23	19-Nov-23	29-Nov-23	1.24	19.99	11.30	Annual shutdown boiler offline 13/11 - 19/11
20-Nov-23	26-Nov-23	29-Nov-23	No data	No data	No data	Annual shutdown boiler offline 20/11 - 26/11
27-Dec-23	3-Dec-23	13-Dec-23	No data	No data	No data	Annual shutdown boiler offline 27/11 - 03/12
4-Dec-23	10-Dec-23	13-Dec-23	1.21	20.11	5.37	Boiler startup at 0500 hrs
11-Dec-23	17-Dec-23	27-Dec-23	1.07	11.69	4.80	
18-Dec-23	24-Dec-23	27-Dec-23	1.50	20.11	12.79	Boiler shutdown 21/12 - 0730
25-Dec-23	31-Dec-23	10-Jan-24	19.78	20.07	19.91	Boiler shutdown 21/12 - 31/12
1-Jan-24	7-Jan-24	10-Jan-24	2.51	20.25	12.79	Boiler shutdown 01/01 - 02/01, 05/01 hrs
8-Jan-24	14-Jan-24	24-Jan-24	1.08	20.06	9.28	Boiler shutdown 12/01-22:00 - 14/01-09:00 hrs
15-Jan-24	21-Jan-24	24-Jan-24	-0.77	19.93	11.02	Boiler shutdown 19/01-22:00 - 21/01-08:00 hrs
22-Jan-24	28-Jan-24	7-Feb-24	1.65	19.59	10.27	Boiler shutdown 26/01 - 29/01
29-Jan-24	4-Feb-24	7-Feb-24	1.47	19.88	13.65	Boiler shutdown 31/01 - 04/02
5-Feb-24	11-Feb-24	21-Feb-24	1.19	19.88	10.95	Boiler shutdown 09/02 - 12/02
12-Feb-24	18-Feb-24	21-Feb-24	1.61	19.77	11.61	Boiler shutdown 16/02 - 19/02
19-Feb-24	25-Feb-24	6-Mar-24	1.32	20.02	10.31	Boiler shutdown 23/02 - 26/02
26-Feb-24	3-Mar-24	6-Mar-24	0.80	19.83	11.71	Boiler shutdown 01/03 - 04/03
4-Mar-24	10-Mar-24	20-Mar-24	2.28	19.82	10.65	Boiler shutdown 08/03 - 19/03
11-Mar-24	17-Mar-24	20-Mar-24	1.48	20.21	11.59	Boiler shutdown 15/03 - 17/03
18-Mar-24	24-Mar-24	3-Apr-24	1.85	20.05	14.22	Boiler shutdown 22/03 - 24/04
25-Mar-24	31-Mar-24	3-Apr-24	1.96	20.03	12.09	Boiler shutdown 29/03 - 02/04
1-Apr-24	7-Apr-24	17-Apr-24	2.17	19.97	14.42	Boiler shutdown 05/04-05/04
8-Apr-24	14-Apr-24	17-Apr-24	2.04	19.99	10.65	Boiler shutdown 12/04-15/04
15-Apr-24	21-Apr-24	1-May-24	1.47	20.25	12.36	Boiler shutdown 19/04-26/04
22-Apr-24	28-Apr-24	1-May-24	2.48	19.94	17.04	Boiler shutdown 22/04-29/04

Sampling Point: Monitoring Point 8 - Injection Water Inlet, Background River Water Temperature
 Licence: Cape Byron Management Pty Ltd
 Location: Condong Cogeneration Power Plant
 EPL No: 20424
 Parameters Monitored: Temperature (°C)
 Frequency & Method: Fortnightly Representative Sample
 Limit/s: Not Applicable - Background river data is used to determine temperature of cooling water discharged at monitoring point 9



Comments

Date Sampled & Received	Date Published	Temp (°C)	Notes
2-Jan-23	25-Jan-23	28.0	
16-Jan-23	25-Jan-23	28.0	
23-Jan-23	08-Feb-23	28.0	
6-Feb-23	08-Feb-23	28.0	
13-Feb-23	22-Feb-23	28.0	
26-Feb-23	08-Mar-23	28.0	
1-Mar-23	08-Mar-23	30.5	
13-Mar-23	22-Mar-23	30.5	
20-Mar-23	22-Mar-23	30.5	
27-Mar-23	05-Apr-23	30.5	
3-Apr-23	05-Apr-23	30.5	
10-Apr-23	19-Apr-23	30.5	
17-Apr-23	19-Apr-23	30.5	
24-Apr-23	03-May-23	30.5	
1-May-23	03-May-23	30.5	
8-May-23	17-May-23	30.5	
18-May-23	31-May-23	19.0	
4-Jun-23	14-Jun-23	19.0	
7-Jun-23	14-Jun-23	22.5	
12-Jun-23	14-Jun-23	20.0	
14-Jun-23	21-Jun-23	20.0	
21-Jun-23	26-Jun-23	20.0	
26-Jun-23	03-Jul-23	20.0	
3-Jul-23	09-Jul-23	21.5	
10-Jul-23	26-Jul-23	21.5	
17-Jul-23	26-Jul-23	21.5	
24-Jul-23	09-Aug-23	21.5	
30-Jul-23	09-Aug-23	21.5	
14-Aug-23	23-Aug-23	24.5	
20-Aug-23	23-Aug-23	24.5	
4-Sep-23	20-Sep-23	24.5	
16-Sep-23	20-Sep-23	24.5	
21-Sep-23	04-Oct-23	24.5	
14-Oct-23	19-Oct-23	24.5	
24-Oct-23	29-Oct-23	28.0	
30-Oct-23	16-Nov-23	28.0	
5-Nov-23	16-Nov-23	28.0	
17-Nov-23	26-Nov-23	28.0	
27-Nov-23	13-Dec-23	28.0	
3-Dec-23	13-Dec-23	28.0	
6-Dec-23	13-Dec-23	30.0	
11-Dec-23	27-Dec-23	29.5	
16-Dec-23	28-Dec-23	29.5	
17-Dec-23	29-Dec-23	29.5	
25-Dec-23	30-Dec-23	29.5	
31-Dec-23	07-Jan-24	29.5	
8-Jan-24	14-Jan-24	29.5	
15-Jan-24	16-Jan-24	26.0	
17-Jan-24	21-Jan-24	26.0	
21-Jan-24	21-Jan-24	29.5	
28-Jan-24	07-Feb-24	29.5	
4-Feb-24	07-Feb-24	27.0	
8-Feb-24	18-Feb-24	29.5	
19-Feb-24	03-Mar-24	29.5	
4-Mar-24	17-Mar-24	29.5	
18-Mar-24	31-Mar-24	29.5	
1-Apr-24	14-Apr-24	29.5	
15-Apr-24	28-Apr-24	29.5	

Sampling Point:

Licencee
Location
EPL No
Parameter/s Monitored
Frequency & Method

Monitoring Point 11 - Stockpile Stormwater Discharge

Cape Byron Management Pty Ltd
Condong Cogeneration Power Plant
20424
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)
Monday, 1 January 2024	9:01am	Tuesday, 2 January 2024	9:00am	64.4	2.2
Tuesday, 2 January 2024	9:01am	Wednesday, 3 January 2024	9:00am	43.4	2.4
Wednesday, 3 January 2024	9:01am	Thursday, 4 January 2024	9:00am	0.2	0.2
Thursday, 4 January 2024	9:01am	Friday, 5 January 2024	9:00am	0.0	0.0
Friday, 5 January 2024	9:01am	Saturday, 6 January 2024	9:00am	0.0	0.0
Saturday, 6 January 2024	9:01am	Sunday, 7 January 2024	9:00am	1.0	0.4
Sunday, 7 January 2024	9:01am	Monday, 8 January 2024	9:00am	0.4	0.2
Monday, 8 January 2024	9:01am	Tuesday, 9 January 2024	9:00am	4.2	0.2
Tuesday, 9 January 2024	9:01am	Wednesday, 10 January 2024	9:00am	59.2	1.4
Wednesday, 10 January 2024	9:01am	Thursday, 11 January 2024	9:00am	2.0	0.2
Thursday, 11 January 2024	9:01am	Friday, 12 January 2024	9:00am	0.0	0.0
Friday, 12 January 2024	9:01am	Saturday, 13 January 2024	9:00am	4.6	0.6
Saturday, 13 January 2024	9:01am	Sunday, 14 January 2024	9:00am	1.6	0.2
Sunday, 14 January 2024	9:01am	Monday, 15 January 2024	9:00am	0.0	0.0
Monday, 15 January 2024	9:01am	Tuesday, 16 January 2024	9:00am	3.4	0.6
Tuesday, 16 January 2024	9:01am	Wednesday, 17 January 2024	9:00am	110.8	1.2
Wednesday, 17 January 2024	9:01am	Thursday, 18 January 2024	9:00am	50.4	0.8
Thursday, 18 January 2024	9:01am	Friday, 19 January 2024	9:00am	1.0	0.2
Friday, 19 January 2024	9:01am	Saturday, 20 January 2024	9:00am	9.0	0.2
Saturday, 20 January 2024	9:01am	Sunday, 21 January 2024	9:00am	0.4	0.2
Sunday, 21 January 2024	9:01am	Monday, 22 January 2024	9:00am	0.0	0.0
Monday, 22 January 2024	9:01am	Tuesday, 23 January 2024	9:00am	0.0	0.0
Tuesday, 23 January 2024	9:01am	Wednesday, 24 January 2024	9:00am	0.0	0.0
Wednesday, 24 January 2024	9:01am	Thursday, 25 January 2024	9:00am	0.0	0.0
Thursday, 25 January 2024	9:01am	Friday, 26 January 2024	9:00am	0.0	0.0
Friday, 26 January 2024	9:01am	Saturday, 27 January 2024	9:00am	0.0	0.0
Saturday, 27 January 2024	9:01am	Sunday, 28 January 2024	9:00am	0.0	0.0
Sunday, 28 January 2024	9:01am	Monday, 29 January 2024	9:00am	10.2	0.2
Monday, 29 January 2024	9:01am	Tuesday, 30 January 2024	9:00am	8.6	0.4
Tuesday, 30 January 2024	9:01am	Wednesday, 31 January 2024	9:00am	10.2	0.6
Wednesday, 31 January 2024	9:01am	Thursday, 1 February 2024	9:00am	0.4	0.2
Thursday, 1 February 2024	9:01am	Friday, 2 February 2024	9:00am	1.6	0.4
Friday, 2 February 2024	9:01am	Saturday, 3 February 2024	9:00am	0.0	0.0
Saturday, 3 February 2024	9:01am	Sunday, 4 February 2024	9:00am	0.0	0.0
Sunday, 4 February 2024	9:01am	Monday, 5 February 2024	9:00am	1.0	0.2
Monday, 5 February 2024	9:01am	Tuesday, 6 February 2024	9:00am	0.2	0.2
Tuesday, 6 February 2024	9:01am	Wednesday, 7 February 2024	9:00am	0.0	0.0
Wednesday, 7 February 2024	9:01am	Thursday, 8 February 2024	9:00am	0.0	0.0
Thursday, 8 February 2024	9:01am	Friday, 9 February 2024	9:00am	22.6	0.4
Friday, 9 February 2024	9:01am	Saturday, 10 February 2024	9:00am	8.0	0.2
Saturday, 10 February 2024	9:01am	Sunday, 11 February 2024	9:00am	4.2	0.2
Sunday, 11 February 2024	9:01am	Monday, 12 February 2024	9:00am	16.8	0.6
Monday, 12 February 2024	9:01am	Tuesday, 13 February 2024	9:00am	2.2	0.4
Tuesday, 13 February 2024	9:01am	Wednesday, 14 February 2024	9:00am	0.6	0.2
Wednesday, 14 February 2024	9:01am	Thursday, 15 February 2024	9:00am	0.0	0.0
Thursday, 15 February 2024	9:01am	Friday, 16 February 2024	9:00am	0.0	0.0
Friday, 16 February 2024	9:01am	Saturday, 17 February 2024	9:00am	55.0	1.2
Saturday, 17 February 2024	9:01am	Sunday, 18 February 2024	9:00am	15.8	1.2
Sunday, 18 February 2024	9:01am	Monday, 19 February 2024	9:00am	1.6	0.6
Monday, 19 February 2024	9:01am	Tuesday, 20 February 2024	9:00am	2.0	0.2
Tuesday, 20 February 2024	9:01am	Wednesday, 21 February 2024	9:00am	23.6	3.0
Wednesday, 21 February 2024	9:01am	Thursday, 22 February 2024	9:00am	1.4	0.4
Thursday, 22 February 2024	9:01am	Friday, 23 February 2024	9:00am	0.0	0.0
Friday, 23 February 2024	9:01am	Saturday, 24 February 2024	9:00am	0.0	0.0
Saturday, 24 February 2024	9:01am	Sunday, 25 February 2024	9:00am	0.0	0.0
Sunday, 25 February 2024	9:01am	Monday, 26 February 2024	9:00am	11.0	0.8
Monday, 26 February 2024	9:01am	Tuesday, 27 February 2024	9:00am	13.2	1.0
Tuesday, 27 February 2024	9:01am	Wednesday, 28 February 2024	9:00am	0.0	0.0
Wednesday, 28 February 2024	9:01am	Thursday, 29 February 2024	9:00am	0.0	0.0
Thursday, 29 February 2024	9:01am	Friday, 1 March 2024	9:00am	0.0	0.0
Friday, 1 March 2024	9:01am	Saturday, 2 March 2024	9:00am	0.0	0.0
Saturday, 2 March 2024	9:01am	Sunday, 3 March 2024	9:00am	0.0	0.0
Sunday, 3 March 2024	9:01am	Monday, 4 March 2024	9:00am	0.0	0.0
Monday, 4 March 2024	9:01am	Tuesday, 5 March 2024	9:00am	2.6	0.6
Tuesday, 5 March 2024	9:01am	Wednesday, 6 March 2024	9:00am	31.4	1.4

Sampling Point:

Licencee
Location
EPL No
Parameter/s Monitored
Frequency & Method

Monitoring Point 11 - Stockpile Stormwater Discharge

Cape Byron Management Pty Ltd
Condong Cogeneration Power Plant
20424
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)
Wednesday, 6 March 2024	9:01am	Thursday, 7 March 2024	9:00am	1.0	0.4
Thursday, 7 March 2024	9:01am	Friday, 8 March 2024	9:00am	0.0	0.0
Friday, 8 March 2024	9:01am	Saturday, 9 March 2024	9:00am	1.8	0.4
Saturday, 9 March 2024	9:01am	Sunday, 10 March 2024	9:00am	2.4	0.4
Sunday, 10 March 2024	9:01am	Monday, 11 March 2024	9:00am	0.0	0.0
Monday, 11 March 2024	9:01am	Tuesday, 12 March 2024	9:00am	0.4	0.2
Tuesday, 12 March 2024	9:01am	Wednesday, 13 March 2024	9:00am	5.0	0.6
Wednesday, 13 March 2024	9:01am	Thursday, 14 March 2024	9:00am	0.6	0.2
Thursday, 14 March 2024	9:01am	Friday, 15 March 2024	9:00am	0.0	0.0
Friday, 15 March 2024	9:01am	Saturday, 16 March 2024	9:00am	0.0	0.0
Saturday, 16 March 2024	9:01am	Sunday, 17 March 2024	9:00am	13.4	0.6
Sunday, 17 March 2024	9:01am	Monday, 18 March 2024	9:00am	2.4	0.2
Monday, 18 March 2024	9:01am	Tuesday, 19 March 2024	9:00am	8.6	0.4
Tuesday, 19 March 2024	9:01am	Wednesday, 20 March 2024	9:00am	7.8	0.2
Wednesday, 20 March 2024	9:01am	Thursday, 21 March 2024	9:00am	7.4	0.8
Thursday, 21 March 2024	9:01am	Friday, 22 March 2024	9:00am	4.2	0.2
Friday, 22 March 2024	9:01am	Saturday, 23 March 2024	9:00am	1.4	0.2
Saturday, 23 March 2024	9:01am	Sunday, 24 March 2024	9:00am	0.0	0.0
Sunday, 24 March 2024	9:01am	Monday, 25 March 2024	9:00am	0.0	0.0
Monday, 25 March 2024	9:01am	Tuesday, 26 March 2024	9:00am	10.8	0.2
Tuesday, 26 March 2024	9:01am	Wednesday, 27 March 2024	9:00am	4.2	0.2
Wednesday, 27 March 2024	9:01am	Thursday, 28 March 2024	9:00am	47.0	0.4
Thursday, 28 March 2024	9:01am	Friday, 29 March 2024	9:00am	1.6	0.2
Friday, 29 March 2024	9:01am	Saturday, 30 March 2024	9:00am	0.8	0.2
Saturday, 30 March 2024	9:01am	Sunday, 31 March 2024	9:00am	11.8	0.8
Sunday, 31 March 2024	9:01am	Monday, 1 April 2024	9:00am	0.0	0.0
Monday, 1 April 2024	9:01am	Tuesday, 2 April 2024	9:00am	0.0	0.0
Tuesday, 2 April 2024	9:01am	Wednesday, 3 April 2024	9:00am	0.0	0.0
Wednesday, 3 April 2024	9:01am	Thursday, 4 April 2024	9:00am	0.0	0.0
Thursday, 4 April 2024	9:01am	Friday, 5 April 2024	9:00am	38.0	0.8
Friday, 5 April 2024	9:01am	Saturday, 6 April 2024	9:00am	15.0	0.4
Saturday, 6 April 2024	9:01am	Sunday, 7 April 2024	9:00am	12.0	0.2
Sunday, 7 April 2024	9:01am	Monday, 8 April 2024	9:00am	44.4	1.2
Monday, 8 April 2024	9:01am	Tuesday, 9 April 2024	9:00am	3.0	0.6
Tuesday, 9 April 2024	9:01am	Wednesday, 10 April 2024	9:00am	0.0	0.0
Wednesday, 10 April 2024	9:01am	Thursday, 11 April 2024	9:00am	0.0	0.0
Thursday, 11 April 2024	9:01am	Friday, 12 April 2024	9:00am	0.0	0.0
Friday, 12 April 2024	9:01am	Saturday, 13 April 2024	9:00am	0.0	0.0
Saturday, 13 April 2024	9:01am	Sunday, 14 April 2024	9:00am	0.0	0.0
Sunday, 14 April 2024	9:01am	Monday, 15 April 2024	9:00am	0.0	0.0
Monday, 15 April 2024	9:01am	Tuesday, 16 April 2024	9:00am	0.0	0.0
Tuesday, 16 April 2024	9:01am	Wednesday, 17 April 2024	9:00am	0.0	0.0
Wednesday, 17 April 2024	9:01am	Thursday, 18 April 2024	9:00am	0.0	0.0
Thursday, 18 April 2024	9:01am	Friday, 19 April 2024	9:00am	0.0	0.0
Friday, 19 April 2024	9:01am	Saturday, 20 April 2024	9:00am	2.4	0.2
Saturday, 20 April 2024	9:01am	Sunday, 21 April 2024	9:00am	0.0	0.0
Sunday, 21 April 2024	9:01am	Monday, 22 April 2024	9:00am	30.6	0.4
Monday, 22 April 2024	9:01am	Tuesday, 23 April 2024	9:00am	41.2	1.4
Tuesday, 23 April 2024	9:01am	Wednesday, 24 April 2024	9:00am	11.8	0.6
Wednesday, 24 April 2024	9:01am	Thursday, 25 April 2024	9:00am	2.0	1.8
Thursday, 25 April 2024	9:01am	Friday, 26 April 2024	9:00am	0.2	0.2
Friday, 26 April 2024	9:01am	Saturday, 27 April 2024	9:00am	0.0	0.0
Saturday, 27 April 2024	9:01am	Sunday, 28 April 2024	9:00am	0.4	0.2
Sunday, 28 April 2024	9:01am	Monday, 29 April 2024	9:00am	0.8	0.2
Monday, 29 April 2024	9:01am	Tuesday, 30 April 2024	9:00am	11.4	0.8

Sampling Point: Monitoring Point 12 - Stormwater Discharge From Stockpile Catchment Basin

Licencee Cape Byron Management Pty Ltd
 Location Condong Cogeneration Power Plant
 EPL No 20424

Parameter/s Monitored See Table
 Frequency & Method Sampling any discharge, whether controlled or otherwise, which has not occurred from rainfall exceeding 82mm over any consecutive five day period

Limit/s See Table

Comments A 90 percentile limit means 90% of results must comply with the specified limit. No result may exceed the maximum limit.



Date Sampled	Date Received	Date Published						Notes	
			90 Percentile Limit	BOD ₅ (mg/L)	Nitrogen (mg/L)	pH	Phosphorus (mg/L)		TSS (mg/L)
			Maximum Limit	30	10	6.5 - 8.5	No Limit	50.0	
19-Jan-21	28-Jan-21	29-Jan-21		8.2	1.3	7.88	0.3	32.0	
23-Feb-21	01-Mar-21	12-Mar-21		10.0	2.1	7.17	0.9	37.0	
15-Mar-21	22-Mar-21	08-Apr-21		5.5	1.2	7.47	0.5	44.0	
25-Mar-21	31-Mar-21	08-Apr-21		15.0	0.9	6.99	0.4	38.0	
13-May-21	19-May-21	02-Jun-21		3.7	0.8	7.65	0.2	11.0	
09-Jul-21	14-Jul-21	16-Jul-21		9.7	1.0	6.89	0.2	37.0	
13-Oct-21	20-Oct-21	22-Oct-21		15.0	1.0	7.15	0.2	27.0	
08-Dec-21	15-Dec-21	22-Dec-21		6.6	1.3	7.60	0.4	17.0	
30-Dec-21	05-Jan-22	14-Jan-22		5.2	0.8	7.35	0.2	23.0	
13-May-22	18-May-22	31-May-22		2.8	2.0	7.15	0.3	28.0	
22-Jul-22	27-Jul-22	02-Aug-22		<1.0	1.0	7.27	0.3	40.0	
27-Jul-22	08-Aug-22	10-Aug-22		8.5	0.9	6.80	0.4	44.0	
26-Sep-22	04-Oct-22	05-Oct-22		3.0	0.9	7.18	0.2	38.0	
03-Nov-22	11-Nov-22	16-Nov-22		5.4	1.1	8.50	0.2	30.0	
13-Nov-23	21-Nov-23	29-Nov-23		8.5	2.0	8.50	0.2	16.0	
04-Jan-24	16-Jan-24	24-Jan-24		12.3	2.1	6.78	0.7	28.0	
22-Jan-24	01-Feb-24	07-Feb-24		8.0	1.6	7.27	0.6	34.0	
22-Feb-24	29-Feb-24	06-Mar-24		5.5	1.3	7.32	0.3	16.0	
08-Apr-24	15-Apr-24	17-Apr-24		6.0	1.6	7.20	0.4	33.0	

Licencee
Location
EPL No

Cape Byron Management Pty Ltd
Condong Power Plant
20424



MONITORING REPORT CORRECTIONS LOG

Date / Period	Monitoring Point	Pollutant/Parameter	Original Data	Corrected Data	Date Corrected	Date Originally Published	Reason
31-Jan-22	9	Oxygen	Min. -0.95 Max. -0.93 Mean -0.93	Min. 2.92 Max. 20.14 Mean 16.44	18-May-22	11-Feb-22	Failed probe identified used back up probe data
7-Feb-22	9	Oxygen	Min. -0.95 Max. -0.93 Mean -0.94	Min. 3.56 Max. 20.54 Mean 12.46	18-May-22	11-Feb-22	Failed probe identified used back up probe data
14-Feb-22	9	Oxygen	Min. -0.95 Max. -0.93 Mean -0.94	Min. 1.97 Max. 20.28 Mean 13.54	18-May-22	25-Feb-22	Failed probe identified used back up probe data
21-Feb-22	9	Oxygen	NA	Min. 1.97 Max. 20.28 Mean 13.54	18-May-22	22-Apr-22	Failed probe identified used back up probe data
11 April - 30 April 22	9	pH Temp O2	None collected	As per sheet	18-Jul-22	01-May-22	Data recoverd from failed hard drive 11-30 April and updated to system on the 18/07/2022