

Analytical Results - Wyangala STP

EPA License Number 20972

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See link above for full licence details

Licensee Name Cowra Shire Council
Licensee Address Private Bag 342, Cowra NSW 2794

Location of Monitoring Point WDSTP - 46 Wyangala Road
WYANGALA DAM NSW 2808,
LOT 1 DP 1044068

Scheduled Activity Sewage Treatment
Scale > 20 - 100 ML annual maximum volume of discharged

Unit/s of Measure Listed below

Monitoring points Listed below, also see map

Date Published 28/02/2023

Date Obtained 24/02/2023

Frequency of Monitoring

Monthly - Points 2
Yearly - Points 4 and 6
Daily - Point 5



Link to Latest Weather Observations for Wyangala

<http://www.bom.gov.au/places/nsw/wyangala/>
<http://www.bom.gov.au/climate/dwo/IDCJDW2038.latest.shtml>

Effluent (EPA monitoring point 2) Monthly Discharge pipeline after UV Treatment

Date Unit of Measure	pH pH	Suspended Solids mg/L	Total Oil & Grease mg/L	BOD mg/L	Ammonia mg/L N	Total Nitrogen mg/L	Total Phosphorous mg/L P	Faecal coliform CFU p/100ml
Current Load Limits	6.5-8.5	30	10	25	15	25	5	600
19-Mar-19	7.33	9	<1	6	1.2	28.6	0.47	<2
9-Apr-19	7.89	8	<1	<2	1.4	36.1	1.56	8
15-Apr-19	7.88	14	<1	<2	0.5	33.8	0.39	4
29-Apr-19	9.05	10	<1	<2	29.5	54.9	0.54	20
15-May-19	7.12	21	<1	<2	16.8	10.9	0.42	<2
20-May-19	7.36	8	<1	<2	20.1	29.7	0.2	<1
19-Jun-19	6.75	7	<1	<2	3.4	25.8	0.16	<1
22-Jul-19	7.65	<2	<1	<2	0.2	17.7	0.71	<2
12-Aug-19	7.64	4	<1	<2	0.2	16.6	1.44	<2
2-Sep-19	7.92	3	<1	<2	<0.1	6.52	0.38	<2
14-Oct-19	7.68	4	<1	<2	0.3	3.45	0.16	<2
19-Nov-19	7.68	13	<1	10	1	5.4	0.49	2
2-Dec-20	8.05	13	<1	4	6.91	0.3	0.66	<2
6-Jan-20	7.96	47	<1	5	3.67	3.67	0.74	10
10-Feb-20	8.34	10	<1	<2	1.74	7.35	1.74	10
23-Mar-20	7.97	7	<1	5	0.69	11.1	0.69	7
16-Apr-20	7.56	5	<1	5	0.58	2.7	0.58	3100
4-May-20								Resample for Faecal coliform
12-May-20	7.45	5	<1	8	0.16	1.61	0.16	<2
3-Jun-20	7.6	82	<1	14	1.77	12.7	1.77	<2
20-Jul-20								No samples recorded
17-Aug-20								No samples recorded
9-Sep-20								No samples recorded
13-Oct-20								No samples recorded
4-Nov-20	7.61	5	<1	<2	0.5	3.81	0.88	<2
15-Dec-20	7.96	8	<1	<2	<0.1	4.05	0.32	<2
11-Jan-21	6.93	12	<1	<2	3.2	19	0.5	<2
1-Feb-21								
10-Mar-21	7.86	6	<1	13	0.8	2.57	0.64	<2
6-Apr-21	8.22	4	<1	6	0.5	8.83	0.64	<2
11-May-21	7.75	5	<1	7	0.4	2.24	0.16	47000
7-Jun-21	7.34	3	<1	6	2.22	2.22	0.08	<2
6-Jul-21	7.77	2	<1	5	3.9	3.9	0.04	<2
9-Aug-21	7.75	<2	<1	5	<0.1	2.25	0.05	<2
7-Sep-21	7.39	5	<1	7	0.3	2.13	0.06	<2
5-Oct-21	7.11	8	<1	4	<0.1	1.42	0.08	6
16-Nov-21	7.48	77	<1	10	8.69	8.96	2.15	63
7-Dec-21	7.4	32	<1	5	<0.1	7.29	0.9	10300
11-Jan-22	7.83	22	<1	8	<0.1	4.51	0.41	360000
8-Feb-22	7.89	6	<1	6	0.3	8.98	0.23	<2
14-Mar-22	7.58	9	<1	8	0.4	18.6	0.15	386
12-Apr-22	7.7	9	<1	4	0.4	26.5	0.18	<2
10-May-22	8.31	18	<1	6	<0.1	8.95	0.2	52
30-Jun-22	8.18	20	<1	9	0.2	13.7	0.23	4
18-Jul-22	8.06	6	<1	17	<0.1	19.1	0.2	<1
3-Aug-22	8.04	12	<1	16	<0.1	2.55	0.22	<2
13-Sep-22	7.96	36	<1	7	<0.1	3.75	0.58	19700
11-Oct-22	7.97	17	<1	6	<0.1	2.03	0.31	<2
28-Nov-22	7.51	11	<1	5	0.2	1.89	0.22	<2
14-Dec-22	7.85	25	<1	6	<0.1	2.41	0.55	37000
16-Jan-23	7.61	17	<1	2	0.3	5.2	0.35	<2

Note:

2019-2020 reporting period Exceedence for monitoring data is as follows

19 March 2019 Total Nitrogen 28.6mg/L - Limit 25mg/L
 9 April 2019 Total Nitrogen 36.1mg/L - Limit 25mg/L
 15 April 2019 Total Nitrogen 33.8mg/L - Limit 25mg/L
 29 April 2019 Total Nitrogen 54.9mg/L - Limit 25mg/L
 29 April 2019 Ammonia 29.5 mg/L - Limit 15mg/L N
 19 March 2019 Total Nitrogen 28.6mg/L - Limit 25mg/L
 15 May 2019 Ammonia 16.8 mg/L - Limit 15mg/L N
 20 May 2019 Total Nitrogen 29.7 mg/L - Limit 25mg/L
 20 May 2019 Ammonia 20.1 mg/L - Limit 15mg/L N
 19 June 2019 Total Nitrogen 25.8mg/L - Limit 25mg/L
 6 January 2020 • Suspended Solids 47 mg/L - Limit 30 mg/L

Council only took control of the Sewer treatment plant from 2020

2020-2021 reporting period Exceedence for monitoring data is as follows

16 April 2020 • Faecal Coliforms 3100 CFU/100ml
 3 June 2020 • Suspended Solids 82mg/L - Limit 30 mg/L

Change reason - .Council has been investigating the causes of these exceedances for Faecal Coliforms and it appears to be an operational and a maintenance issue with the wrong lable on sampling bottle. The Suspended solids is also operational and maintance issue.

2021-2022 reporting period Exceedence for monitoring data is as follows

11 May 2021 • Faecal Coliforms 46000 CFU/100ml
 16 November 2021 • Suspended Solids 77 mg/L

7 December 2021 • Suspended Solids 32 mg/L and Faecal Coliforms 10300 CFU/100mL - Note: Not considered a breach as testing was completed prior to the UV (from Monitoring Point 1, not Point 2) due to Council not discharging to Greens Creek.

11 January 2021 • Suspended Solids 2 mg/L and Faecal Coliforms 360000 CFU/100mL - Note: Not considered a breach as testing was completed prior to the UV (from Montoring Point 1, not Point 1) due to Council not discharging to Greens Creek.

2022-2023 reporting period Exceedence for monitoring data is as follows

12 April 2022 • Total Nitrogen 26.5mg/L
 13 September 2022 • Suspended Solids 36 mg/L
 13 September 2022 • Faecal Coliforms 19700 CFU/100ml
 14 December 2022 • Faecal Coliforms 37000 CFU/100ml

Downstream (EPA monitoring point 4) yearly durin! Green Creek down stream of point 3 adjacent to former Wyangala Village STP

Date	pH pH	Suspended Solids mg/L	Oil & Grease mg/L	BOD mg/L	Ammonia mg/L N	Total Nitrogen mg/L	Total Phosphorous mg/L P	Faecal Coliforms CFU p/100ml
2019-2020	* No samples taken during this period. Dry Creek Bed							
2020-2021	No Samples recorded							

Downstream (EPA monitoring point 5) Daily during Catch balance Tank

Note: No Dischharge during the period of 28 January 2019 to 15 January 2020

Date	pH pH	Suspended Solids mg/L	Oil & Grease mg/L	BOD mg/L	Ammonia mg/L N	Total Nitrogen mg/L	Total Phosphorous mg/L P	Faecal coliform CFU p/100ml
2019-2020								
2020-2021	No Samples recorded							

Upstream (EPA monitoring point 6) Yearly during c Flow

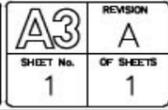
Note: No Dischharge during the period of 28 January 2019 to 15 January 2020

Date	pH pH	Suspended Solids mg/L	Oil & Grease mg/L	BOD mg/L	Ammonia mg/L N	Total Nitrogen mg/L	Total Phosphorous mg/L P	Faecal coliform CFU p/100ml
2019-2020	0	0	0	0	0	0	0	0
2020-2021	No Samples recorded							

Map of Monitoring Points



Point number	Type of Point
1	Volume Monitoring
2	Discharge Quality Monitoring Point
3	Discharge Point
4	Downstream Monitoring Point
5	Discharge Point
6	Upstream Monitoring Point

NOTES/ AMENDMENTS :	SCALES : 1:2000	SURVEY REF. :	SURVEYED : DATE :	CHECKED AND RECOMMENDED		WYANGALA SEWER TREATMENT PLANT EPA LICENCE TEST POINTS	
	DATUM : 90°	PROJECT CODE :	DESIGNED : DATE :	DESIGN ENGINEER DATE :			
	CAD REF : Wyangala STP EPA Licence Test Points.dwg		DRAWN : LULLER DATE : 07/08/2019	APPROVED			