

**WWTP Effluent Monitoring**  
**Annual Summary**  
**1/11/2020 to 31/10/2021**



**\*Notes regarding Licence Limits**

A single number denotes a maximum value that should not be exceeded.  
 Two numbers separated by a slash " / " denote a 90% limit and a maximum limit.  
 Two numbers separated by a dash " - " denote minimum and maximum limits.

**90 percentiles explained**

Within a licence for each pollutant listed by the EPA, it will have a limit value. This value may be a 100 percentile limit where samples must meet the limit value 100% of the time. Lower limits may also be assigned.  
 Where there are limit values lower than a 100% limit a sample or samples test results can exceed the limit value. For example, if a 90 percentile limit is assigned to a pollutant, this means 90% of collected samples should meet the limit value. If 10 samples are required in a year only one sample of the ten samples for the year is allowed to exceed the 90 percentile limit value. If more than one sample exceeds this value this would be a non-compliance of the licence conditions.

**Treatment Plant: Murwillumbah**

**EPA Licence Number: 582**

**License Year: 01 November to 31 October**

Monitoring Point: MWWTP/Effluent      EPA Point: Point 1

Summary Period 1/11/2020 to 31/10/2021	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceed ance
Published: 04 Nov	Ammonia	mg/L	25	0.12	2.24	0.41	0.63	2 / 5	No
	BOD5	mg/L	25	<1.0	6.0	1.89	2.92	10 / 20	No
	Oil & Grease	mg/L	25	<2	4	2	0.0	5 / 10	No
	pH	pH units	25	6.6	8.5	7.45	7.96	6.5-8.5	No
	Suspended Solids	mg/L	25	<1.0	10.0	4.06	8.4	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	24	<1	1660	264	997.0	200 / 600	Yes
	Total Nitrogen	mg/L	25	2.0	7.54	5.04	6.492	10 / 20	No
	Total Phosphorus	mg/L	25	0.05	0.19	0.12	0.15	0.5 / 1	No

Monitoring Point: MWWTP/Reuse      EPA Point: Point 6

Summary Period 1/11/2020 to 31/10/2021	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceed ance
Published: 04 Nov	Ammonia	mg/L	23	<0.02	1.32	0.09	0.07	2 / 5	No
	BOD5	mg/L	23	<1.0	6.0	2.86	4.44	10 / 20	No
	Oil & Grease	mg/L	23	<2	<2	2	0.0	5 / 10	No
	pH	pH units	23	6.9	8.4	7.67	8.06	6.5-8.5	No
	Suspended Solids	mg/L	23	<1.0	2.3	1.08	0.0	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	24	<1	1	1	0.0	200 / 600	No
	Total Nitrogen	mg/L	23	1.35	7.93	4.57	6.328	10 / 20	No
	Total Phosphorus	mg/L	23	0.02	0.15	0.05	0.07	0.5 / 1	No