

WWTP Effluent Monitoring

Annual Summary

31/03/2012 to 31/10/2024



*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: Kingscliff

EPA Licence Number: 12684

License Year: 07 February to 06 February

Monitoring Point: KWWTP/Effluent EPA Point: Point 1

Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
7/02/2012 to 6/02/2013 Published: 07 Feb	Ammonia	mg/L	49	<0.02	2.46	0.1	0.102	2 / 4	No
	BOD5	mg/L	49	<1.0	5.0	1.47	2.48	15 / 35	No
	Oil & Grease	mg/L	49	<2.0	8.0	2.27	2.6	5 / 10	No
	pH	pH units	49	7.6	8.0	7.77	7.9	6.5-8.5	No
	Suspended Solids	mg/L	49	<1.0	5.0	1.2	1.4	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	49	<1	560	15	7.0	100 / 600	No
	Total Nitrogen	mg/L	49	0.84	5.83	1.86	2.632	5 / 10	No
	Total Phosphorus	mg/L	49	0.05	0.41	0.09	0.13	0.5 / 1	No
Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
7/02/2014 to 6/02/2015 Published: 04 Mar	Ammonia	mg/L	26	<0.02	0.3	0.06	0.075	2 / 4	No
	BOD5	mg/L	26	<1.0	3.8	1.45	2.5	10 / 20	No
	Oil & Grease	mg/L	26	<2	4	2	1.0	5 / 10	No
	pH	pH units	26	7.5	7.9	7.7	7.8	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	2.6	1.18	1.6	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	27	<1	470	28	6.4	100 / 600	No
	Total Nitrogen	mg/L	26	0.84	3.32	1.51	2.14	5 / 10	No
	Total Phosphorus	mg/L	26	0.05	0.11	0.07	0.095	0.5 / 1	No

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Summary Period 7/02/2015 to 6/02/2016 Published: 02 Mar	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	26	<0.02	0.27	0.04	0.06	2 / 4	No
	BOD5	mg/L	26	<1.0	2.6	1.48	2.15	10 / 20	No
	Oil & Grease	mg/L	26	<2	5	2	0.0	5 / 10	No
	pH	pH units	26	7.0	7.7	7.55	7.7	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	7.3	1.66	2.7	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	27	<1	2500	112	75.6	100 / 600	Yes
	Total Nitrogen	mg/L	26	0.89	2.65	1.46	2.1	5 / 10	No
Total Phosphorus	mg/L	26	0.06	0.16	0.1	0.13	0.5 / 1	No	
Summary Period 7/02/2016 to 6/02/2017 Published: 01 Mar	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	26	<0.02	0.22	0.03	0.03	2 / 4	No
	BOD5	mg/L	26	<1.0	4.2	1.31	1.7	10 / 20	No
	Oil & Grease	mg/L	26	<2.0	2.9	2.03	0.0	5 / 10	No
	pH	pH units	26	7.2	8.1	7.68	7.9	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	1.4	1.07	1.2	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	47	5	14.0	100 / 600	No
	Total Nitrogen	mg/L	26	0.91	3.72	1.68	2.855	5 / 10	No
Total Phosphorus	mg/L	26	<0.02	0.15	0.09	0.125	0.5 / 1	No	
Summary Period 7/02/2013 to 6/02/2014 Published: 06 Feb	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	52	<0.02	0.26	0.04	0.059	2 / 4	No
	BOD5	mg/L	52	<1.0	5.0	1.23	1.6	15 / 35	No
	Oil & Grease	mg/L	52	<2	3	2	0.0	5 / 10	No
	pH	pH units	52	7.2	8.0	7.74	7.9	6.5-8.5	No
	Suspended Solids	mg/L	52	<1.0	25.0	1.99	1.78	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<1	74	5	5.9	100 / 600	No
	Total Nitrogen	mg/L	52	0.9	2.67	1.57	2.34	5 / 10	No
Total Phosphorus	mg/L	52	0.04	0.48	0.09	0.11	0.5 / 1	No	
Summary Period 7/02/2019 to 6/02/2020 Published: 11 Feb	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	26	<0.02	0.03	0.02	0.03	2 / 4	No
	BOD5	mg/L	26	<1.0	4.2	1.36	2.0	10 / 20	No
	Oil & Grease	mg/L	26	<2	3	2	0.0	5 / 10	No

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Summary Period 7/02/2019 to 6/02/2020 Published: 11 Feb	pH	pH units	26	7.4	7.9	7.61	7.8	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	2.0	1.11	1.5	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	33	3	2.5	100 / 600	No
	Total Nitrogen	mg/L	26	0.99	2.69	1.76	2.49	5 / 10	No
	Total Phosphorus	mg/L	26	0.07	0.13	0.09	0.115	0.5 / 1	No
Summary Period 7/02/2020 to 6/02/2021 Published: 10 Feb	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	26	<0.02	0.04	0.02	0.03	2 / 4	No
	BOD5	mg/L	26	<1.0	9.8	2.06	4.9	10 / 20	No
	Oil & Grease	mg/L	26	<2	13	2	1.0	5 / 10	Yes
	pH	pH units	26	7.1	7.8	7.6	7.75	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	4.4	1.46	2.4	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	43	4	9.0	100 / 600	No
	Total Nitrogen	mg/L	26	0.82	2.26	1.19	1.725	5 / 10	No
Total Phosphorus	mg/L	26	0.06	0.18	0.1	0.14	0.5 / 1	No	
Summary Period 7/02/2021 to 6/02/2022 Published: 02 Feb	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	26	<0.02	0.88	0.1	0.11	2 / 4	No
	BOD5	mg/L	26	<1.0	9.6	2.12	3.15	10 / 20	No
	Oil & Grease	mg/L	26	<2	3	2	2.0	5 / 10	No
	pH	pH units	26	6.8	7.8	7.55	7.7	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	5.0	2.28	4.5	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	43	4	10.0	100 / 600	No
	Total Nitrogen	mg/L	26	0.75	3.47	1.24	1.73	5 / 10	No
Total Phosphorus	mg/L	26	0.07	0.21	0.12	0.16	0.5 / 1	No	

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
7/02/2022 to 6/02/2023 Published: 06 Feb	Ammonia	mg/L	26	<0.02	4.27	0.22	0.07	2 / 4	Yes
	BOD5	mg/L	26	<1.0	4.8	1.77	2.85	10 / 20	No
	Oil & Grease	mg/L	26	<2	4	2	1.5	5 / 10	No
	pH	pH units	26	7.3	7.9	7.52	7.6	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	8.0	2.07	3.6	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	25	<1	128	12	31.2	100 / 600	No
	Total Nitrogen	mg/L	26	0.69	5.99	1.51	1.935	5 / 10	No
	Total Phosphorus	mg/L	26	0.06	1.6	0.17	0.14	0.5 / 1	Yes
7/02/2023 to 6/02/2024 Published: 05 Feb	Ammonia	mg/L	26	<0.02	0.07	0.03	0.03	2 / 4	No
	BOD5	mg/L	26	<1.0	18.0	1.93	2.1	10 / 20	No
	Oil & Grease	mg/L	26	<2	6	2	0.0	5 / 10	No
	pH	pH units	26	7.3	7.7	7.48	7.6	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	5.4	2.69	4.2	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	158	15	25.5	100 / 600	No
	Total Nitrogen	mg/L	26	0.93	6.26	1.95	2.69	5 / 10	No
	Total Phosphorus	mg/L	26	0.12	1.08	0.19	0.19	0.5 / 1	Yes
7/02/2024 to 6/02/2025 Published: 09 Oct	Ammonia	mg/L	20	<0.02	3.96	0.29	0.343	2 / 4	No
	BOD5	mg/L	20	<1.0	1.5	1.03	0.0	10 / 20	No
	Oil & Grease	mg/L	20	<2	2	2	0.0	5 / 10	No
	pH	pH units	20	7.3	7.7	7.46	7.6	6.5-8.5	No
	Suspended Solids	mg/L	20	<1.0	3.0	1.62	2.51	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	20	<1	43	6	29.1	100 / 600	No
	Total Nitrogen	mg/L	20	1.03	6.12	2.04	2.952	5 / 10	No
	Total Phosphorus	mg/L	20	0.1	0.99	0.2	0.271	0.5 / 1	No