

# WWTP Effluent Monitoring

## Annual Summary

31/03/2012 to 30/11/2024



### \*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: Banora Point**

**EPA Licence Number: 1411**

**License Year: 01 December to 30 November**

Monitoring Point: BPWWTP/Effluent

EPA Point: Point 1

Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
1/12/2014 to 30/11/2015  Published: 14 Dec	Ammonia	mg/L	52	<0.02	4.68	0.16	0.14	2 / 5	No
	BOD5	mg/L	52	<1.0	79.0	2.78	1.98	10 / 20	Yes
	Oil & Grease	mg/L	52	<2	16	3	2.9	5 / 10	Yes
	pH	pH units	52	7.2	8.9	7.69	8.19	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	17.0	2.69	4.47	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<1	1130	199	502.0	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.48	7.5	2.49	3.474	10 / 20	No
	Total Phosphorus	mg/L	52	0.06	1.0	0.16	0.249	0.5 / 1	No
Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
1/12/2015 to 30/11/2016  Published: 14 Dec	Ammonia	mg/L	52	<0.02	2.06	0.14	0.149	2 / 5	No
	BOD5	mg/L	52	<1.0	2.4	1.13	1.49	10 / 20	No
	Oil & Grease	mg/L	52	<2.0	3.2	2.06	2.0	5 / 10	No
	pH	pH units	52	7.1	8.6	7.55	7.8	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	6.9	1.76	3.0	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	8	1220	150	366.0	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.5	4.49	2.23	2.753	10 / 20	No
	Total Phosphorus	mg/L	52	0.05	0.19	0.09	0.119	0.5 / 1	No

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<b>Summary Period</b> <b>1/12/2015 to</b> <b>30/11/2016</b>  Published: 25 Jan	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	52	0.03	12.97	0.39	0.295	2 / 5	Yes
	BOD5	mg/L	52	<1.0	29.0	1.68	1.59	10 / 20	Yes
	Oil & Grease	mg/L	52	<2.0	4.0	2.07	2.0	5 / 10	No
	pH	pH units	52	7.1	8.0	7.56	7.7	6.5-8.5	No
	Suspended Solids	mg/L	52	<1.0	17.0	1.87	2.69	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<1	69000	132782	255.0	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.68	15.18	2.59	2.658	10 / 20	No
Total Phosphorus	mg/L	52	0.07	2.47	0.15	0.15	0.5 / 1	Yes	
<b>Summary Period</b> <b>1/12/2017 to</b> <b>30/11/2018</b>  Published: 13 Dec	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	52	<0.02	0.37	0.07	0.12	2 / 5	No
	BOD5	mg/L	52	<1.0	4.6	1.35	1.98	10 / 20	No
	Oil & Grease	mg/L	52	<2.0	4.0	2.12	2.543	5 / 10	No
	pH	pH units	52	7.6	9.0	7.88	8.19	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	12.0	2.06	4.19	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<1	630	116	258.0	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.59	4.95	2.24	2.628	10 / 20	No
Total Phosphorus	mg/L	52	0.05	0.45	0.09	0.11	0.5 / 1	No	
<b>Summary Period</b> <b>1/12/2018 to</b> <b>30/11/2019</b>  Published: 11 Dec	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	52	<0.02	0.36	0.07	0.157	2 / 5	No
	BOD5	mg/L	52	<1.0	5.1	1.34	1.8	10 / 20	No
	Oil & Grease	mg/L	52	<2.0	4.25	2.13	1.8	5 / 10	No
	pH	pH units	52	7.2	8.6	7.86	8.39	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	11.0	2.61	6.54	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<1	610	109	266.5	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.45	2.72	2.08	2.579	10 / 20	No
Total Phosphorus	mg/L	52	0.04	0.11	0.07	0.11	0.5 / 1	No	
<b>Summary Period</b> <b>1/12/2019 to</b> <b>30/11/2020</b>  Published: 21 Jun	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	52	<0.02	0.17	0.06	0.099	2 / 5	No
	BOD5	mg/L	52	<1.0	5.2	1.35	1.98	10 / 20	No
	Oil & Grease	mg/L	52	<2	6	2	3.0	5 / 10	No

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<b>Summary Period</b> 1/12/2019 to 30/11/2020  Published: 21 Jun	pH	pH units	52	7.1	9.1	7.78	8.56	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	7.4	2.04	4.58	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	53	22	1610	262	486.4	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.55	3.14	2.3	2.666	10 / 20	No
	Total Phosphorus	mg/L	52	0.04	0.43	0.09	0.149	0.5 / 1	No
<b>Summary Period</b> 1/12/2011 to 30/11/2012  Published: 25 Jan	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	52	<0.02	1.73	0.18	0.279	2 / 5	No
	BOD5	mg/L	87	<1.0	5.4	1.59	2.68	15 / 35	No
	Oil & Grease	mg/L	87	<2	5	2	2.4	10	No
	pH	pH units	87	6.9	9.2	7.55	7.84	6.5-8.5	Yes
	Suspended Solids	mg/L	87	<1.0	25.0	2.52	3.88	20 / 40	No
	Thermotolerant Coliforms	cfu/100 ml	86	1	5900	430	670.0	200 / 600	Yes
	Total Nitrogen	mg/L	87	0.99	16.0	3.04	5.742	10 / 20	No
Total Phosphorus	mg/L	87	0.04	3.41	0.48	1.186	0.5 / 1	Yes	
<b>Summary Period</b> 1/12/2012 to 30/11/2013  Published: 07 Dec	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	53	<0.02	14.1	0.6	0.376	2 / 5	Yes
	BOD5	mg/L	105	<1.0	9.9	1.92	3.18	15 / 35	No
	Oil & Grease	mg/L	105	<2	3	2	2.0	10	No
	pH	pH units	105	6.9	9.2	7.73	8.3	6.5-8.5	Yes
	Suspended Solids	mg/L	105	<1.0	22.0	3.55	8.84	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	102	<1	8400	478	602.0	10000	No
	Total Nitrogen	mg/L	105	1.09	14.8	2.28	3.022	10 / 20	No
Total Phosphorus	mg/L	105	0.04	4.33	0.24	0.402	0.5 / 1	Yes	

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
<b>1/12/2013 to 30/11/2014</b>  Published: 07 Dec	Ammonia	mg/L	53	<0.02	3.14	0.17	0.298	2 / 5	No
	BOD5	mg/L	105	<1.0	7.8	1.63	3.12	15 / 35	No
	Oil & Grease	mg/L	105	<2	6	2	2.6	10	No
	pH	pH units	105	7.2	9.3	7.98	8.9	6.5-8.5	Yes
	Suspended Solids	mg/L	105	<1.0	34.0	5.22	13.6	20 / 40	No
	Thermotolerant Coliforms	cfu/100 ml	102	<9	1690	329	778.0	10000	No
	Total Nitrogen	mg/L	105	1.19	4.61	2.18	3.252	10 / 20	No
	Total Phosphorus	mg/L	105	0.04	0.68	0.14	0.288	0.5 / 1	No
<b>1/12/2023 to 30/11/2024</b>  Published: 06 Nov	Ammonia	mg/L	52	<0.02	0.94	0.12	0.28	2 / 5	No
	BOD5	mg/L	52	<1.0	4.2	1.26	1.77	10 / 20	No
	Oil & Grease	mg/L	52	<2	3	2	0.0	5 / 10	No
	pH	pH units	52	7.2	8.9	7.65	8.09	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	6.0	1.52	2.27	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<10	1080	255	519.0	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.3	2.65	1.91	2.199	10 / 20	No
	Total Phosphorus	mg/L	52	0.07	0.5	0.11	0.167	0.5 / 1	No