

# 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: Hastings Point**

**EPA Licence Number: 3618**

**License Year: 19 February to 18 February**

Monitoring Point: HPWWTP/Effluent

EPA Point: Point 1

Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
19/02/2012 to 18/02/2013 Published: 11 Mar	BOD5	mg/L	23	<1.0	4.6	2.46	4.08	10 / 20	No
	Oil & Grease	mg/L	23	<2	3	2	2.8	5 / 10	No
	pH	pH units	23	6.9	7.4	7.17	7.3	6.5-8.5	No
	Suspended Solids	mg/L	23	<1.0	6.2	2.12	4.12	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	23	<1	26	2	0.8	na	-
	Total Nitrogen	mg/L	23	4.72	8.66	6.05	7.966	10 / 20	No
	Total Phosphorus	mg/L	23	0.21	0.83	0.4	0.564	1 / 2	No
19/02/2013 to 18/02/2014 Published: 04 Mar	BOD5	mg/L	26	<1.0	6.0	2.6	3.2	10 / 20	No
	Oil & Grease	mg/L	26	<2	<2	<2.0	0.0	5 / 10	No
	pH	pH units	26	6.7	7.4	7.13	7.35	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	12.0	2.81	4.4	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	190	14	8.0	na	-
	Total Nitrogen	mg/L	26	3.53	11.08	6.18	8.115	10 / 20	No
	Total Phosphorus	mg/L	26	0.17	0.82	0.34	0.58	1 / 2	No

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<b>Summary Period</b> <b>19/02/2014 to</b> <b>18/02/2015</b>  Published: 02 Mar	<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>
	BOD5	mg/L	27	<1.0	3.3	1.47	2.4	10 / 20	No
	Oil & Grease	mg/L	27	<2	4	2	2.4	5 / 10	No
	pH	pH units	27	6.8	7.4	7.13	7.3	6.5-8.5	No
	Suspended Solids	mg/L	27	<1.0	4.8	1.61	2.2	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	27	<1	2600	115	82.6	na	-
	Total Nitrogen	mg/L	27	0.4	9.7	6.88	9.6	10 / 20	No
Total Phosphorus	mg/L	27	0.16	1.91	0.41	0.682	1 / 2	No	
<b>Summary Period</b> <b>19/02/2015 to</b> <b>18/02/2016</b>  Published: 01 Mar	<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>
	BOD5	mg/L	26	<1.0	9.8	3.02	8.1	10 / 20	No
	Oil & Grease	mg/L	26	<2	5	2	3.0	5 / 10	No
	pH	pH units	26	7.0	7.4	7.19	7.35	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	4.0	1.46	2.05	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	23	2	2.0	na	-
	Total Nitrogen	mg/L	26	3.44	8.99	6.32	8.505	10 / 20	No
Total Phosphorus	mg/L	26	0.25	0.79	0.46	0.625	1 / 2	No	
<b>Summary Period</b> <b>19/02/2016 to</b> <b>18/02/2017</b>  Published: 01 Mar	<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>
	BOD5	mg/L	26	<1.0	12.0	2.25	5.2	10 / 20	No
	Oil & Grease	mg/L	26	<2.0	3.4	2.13	1.45	5 / 10	No
	pH	pH units	26	6.8	7.4	7.1	7.3	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	8.5	2.08	3.3	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	<1	<1	0.0	na	-
	Total Nitrogen	mg/L	26	4.63	18.99	7.55	9.445	10 / 20	No
Total Phosphorus	mg/L	26	0.2	2.44	0.5	0.615	1 / 2	Yes	
<b>Summary Period</b> <b>19/02/2017 to</b> <b>18/02/2018</b>  Published: 07 Mar	<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>
	BOD5	mg/L	26	<1.0	4.4	1.27	1.1	10 / 20	No
	Oil & Grease	mg/L	26	<2	3	2	1.0	5 / 10	No
	pH	pH units	26	7.0	7.3	7.11	7.25	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	16.0	3.15	5.2	15 / 30	No
Thermotolerant Coliforms	cfu/100 ml	26	<1	40000	1567	26.0	na	-	

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<b>Summary Period</b> 19/02/2017 to 18/02/2018	Total Nitrogen	mg/L	26	4.2	23.73	7.54	10.105	10 / 20	Yes
	Total Phosphorus	mg/L	26	0.25	1.87	0.48	0.54	1 / 2	No
<b>Summary Period</b> 19/02/2018 to 18/02/2019  Published: 11 Mar	<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>
	BOD5	mg/L	26	<1.0	10.8	2.48	5.2	10 / 20	No
	Oil & Grease	mg/L	26	<2.0	4.0	2.17	2.55	5 / 10	No
	pH	pH units	26	6.9	7.6	7.3	7.5	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	5.4	1.92	3.7	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	13000	528	81.0	na	-
	Total Nitrogen	mg/L	26	3.76	9.28	5.64	7.765	10 / 20	No
	Total Phosphorus	mg/L	26	0.21	1.3	0.44	0.605	1 / 2	No
<b>Summary Period</b> 19/02/2019 to 18/02/2020  Published: 09 Mar	<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>
	BOD5	mg/L	26	<1.0	7.6	2.05	4.8	10 / 20	No
	Oil & Grease	mg/L	26	<2	4	2	2.0	5 / 10	No
	pH	pH units	26	6.9	7.6	7.34	7.55	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	5.6	2.23	4.2	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	123	12	23.0	na	-
	Total Nitrogen	mg/L	26	2.81	9.76	5.08	6.32	10 / 20	No
Total Phosphorus	mg/L	26	0.22	1.08	0.39	0.55	1 / 2	No	
<b>Summary Period</b> 19/02/2020 to 18/02/2021  Published: 03 Mar	<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>
	BOD5	mg/L	26	<1.0	11.0	2.53	6.2	10 / 20	No
	Oil & Grease	mg/L	26	<2	2	2	1.0	5 / 10	No
	pH	pH units	26	7.0	7.5	7.22	7.4	6.5-8.5	No
	Suspended Solids	mg/L	26	1.0	8.4	3.4	5.7	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	1110	49	35.0	na	-
	Total Nitrogen	mg/L	26	3.23	18.2	6.07	8.93	10 / 20	No
Total Phosphorus	mg/L	26	0.16	0.96	0.29	0.455	1 / 2	No	

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
19/02/2021 to 18/02/2022  Published: 10 Mar	BOD5	mg/L	26	<1.0	19.0	4.52	9.45	10 / 20	No
	Oil & Grease	mg/L	26	<2	3	2	2.5	5 / 10	No
	pH	pH units	26	6.9	7.4	7.14	7.3	6.5-8.5	No
	Suspended Solids	mg/L	26	1.0	12.0	4.2	7.7	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	1630	97	14.0	na	-
	Total Nitrogen	mg/L	26	3.81	23.2	7.62	11.65	10 / 20	Yes
	Total Phosphorus	mg/L	26	0.2	0.58	0.32	0.45	1 / 2	No
19/02/2022 to 18/02/2023  Published: 19 Apr	BOD5	mg/L	26	<1.0	15.0	3.82	8.6	10 / 20	No
	Oil & Grease	mg/L	26	<2	6	2	3.5	5 / 10	No
	pH	pH units	26	6.7	7.4	7.02	7.35	6.5-8.5	No
	Suspended Solids	mg/L	26	4.0	54.0	14.53	23.0	15 / 30	Yes
	Thermotolerant Coliforms	cfu/100 ml	25	<1	20800	10405	34.8	na	-
	Total Nitrogen	mg/L	26	6.72	27.4	13.09	19.65	10 / 20	Yes
	Total Phosphorus	mg/L	26	0.22	1.67	0.57	0.75	1 / 2	No
19/02/2023 to 18/02/2024  Published: 04 Mar	BOD5	mg/L	26	<1.0	42.0	5.06	11.0	10 / 20	Yes
	Oil & Grease	mg/L	26	<2	3	2	2.5	5 / 10	No
	pH	pH units	26	6.5	7.2	7.04	7.2	6.5-8.5	No
	Suspended Solids	mg/L	26	1.4	17.0	6.53	9.4	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	780	93	319.0	na	-
	Total Nitrogen	mg/L	26	4.16	20.1	9.2	13.7	10 / 20	Yes
	Total Phosphorus	mg/L	26	0.24	0.71	0.42	0.615	1 / 2	No

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
19/02/2024 to 18/02/2025	BOD5	mg/L	19	<1.0	24.0	2.31	1.8	10 / 20	Yes
Published: 09 Oct	Oil & Grease	mg/L	19	<2	3	2	2.0	5 / 10	No
	pH	pH units	19	6.9	7.3	7.08	7.3	6.5-8.5	No
	Suspended Solids	mg/L	19	<1.0	36.0	5.08	8.64	15 / 30	Yes
	Thermotolerant Coliforms	cfu/100 ml	19	<1	10200	5370	3.6	na	-
	Total Nitrogen	mg/L	19	3.69	35.6	9.02	14.44	10 / 20	Yes
	Total Phosphorus	mg/L	19	0.17	2.15	0.44	0.69	1 / 2	Yes