

# 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: Uki**

**EPA Licence Number: 12392**

**License Year: 12 December to 11 December**

Monitoring Point: UWWTP/Effluent

EPA Point: Point 4

Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
12/12/2011 to 11/12/2012	Ammonia	mg/L	18	<0.02	1.25	0.16	0.369	5 / 10	No
Published: 23 Jan	BOD5	mg/L	18	2.4	14.0	7.42	12.3	15 / 30	No
	Oil & Grease	mg/L	18	<2	4	2	3.0	10 / 20	No
	pH	pH units	18	8.1	9.6	8.97	9.5	6.5-8.5	Yes
	Suspended Solids	mg/L	18	11	59	33	48.9	25 / 50	Yes
	Suspended Solids Corrected	mg/L	18	7.5	57.0	21.14	38.6	25 / 50	Yes
	Thermotolerant Coliforms	cfu/100 ml	18	<1	1260	159	423.6	na	-
	Total Nitrogen	mg/L	18	2.2	4.71	3.0	3.697	30 / 60	No
	Total Phosphorus	mg/L	18	0.58	3.36	1.63	2.919	6 / 12	No
Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
12/12/2012 to 11/12/2013	Ammonia	mg/L	27	<0.02	1.0	0.25	0.63	5 / 10	No
Published: 06 Jan	BOD5	mg/L	27	2.8	11.0	6.31	9.76	15 / 30	No
	Oil & Grease	mg/L	27	<2	3	2	2.0	10 / 20	No
	pH	pH units	27	7.5	10.2	8.58	9.72	6.5-8.5	Yes
	Suspended Solids	mg/L	27	13	86	33	54.8	25 / 50	Yes
	Suspended Solids Corrected	mg/L	27	5.4	85.0	26.08	46.4	25 / 50	Yes
	Thermotolerant Coliforms	cfu/100 ml	27	<10	430	75	242.0	na	-
	Total Nitrogen	mg/L	27	1.48	4.72	3.18	4.258	30 / 60	No
	Total Phosphorus	mg/L	27	0.53	3.58	1.65	3.07	6 / 12	No

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
12/12/2013 to 11/12/2014  Published: 07 Jan	Ammonia	mg/L	26	0.04	1.61	0.49	1.075	5 / 10	No
	BOD5	mg/L	26	<1.0	12.0	5.47	10.0	15 / 30	No
	Oil & Grease	mg/L	26	<2	4	2	1.0	10 / 20	No
	pH	pH units	26	6.7	9.8	7.86	9.7	6.5-8.5	Yes
	Suspended Solids	mg/L	26	3.5	67.0	19.18	43.5	25 / 50	Yes
	Suspended Solids Corrected	mg/L	26	1.8	67.0	14.43	33.85	25 / 50	Yes
	Thermotolerant Coliforms	cfu/100 ml	27	<2	14000	722	678.0	na	-
	Total Nitrogen	mg/L	26	2.44	18.2	8.0	14.995	30 / 60	No
	Total Phosphorus	mg/L	26	0.36	4.14	1.74	3.225	6 / 12	No
Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
12/12/2014 to 11/12/2015  Published: 11 Jan	Ammonia	mg/L	26	0.14	57.2	5.15	10.765	5 / 10	Yes
	BOD5	mg/L	26	<1.0	36.0	4.42	6.75	15 / 30	Yes
	Oil & Grease	mg/L	26	<2	8	3	3.0	10 / 20	No
	pH	pH units	26	6.5	7.8	7.03	7.35	6.5-8.5	No
	Suspended Solids	mg/L	26	1.2	42.0	9.02	15.5	25 / 50	No
	Suspended Solids Corrected	mg/L	26	1.2	42.0	8.99	15.5	25 / 50	No
	Thermotolerant Coliforms	cfu/100 ml	23	<1	260000	14360	21204.0	na	-
	Total Nitrogen	mg/L	26	1.75	62.3	13.44	18.25	30 / 60	Yes
	Total Phosphorus	mg/L	26	0.16	4.3	0.69	1.205	6 / 12	No

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
12/12/2015 to 11/12/2016  Published: 11 Jan	Ammonia	mg/L	26	<0.02	1.03	0.18	0.44	5 / 10	No
	BOD5	mg/L	26	<1.0	8.8	2.52	4.6	15 / 30	No
	Oil & Grease	mg/L	26	<2.0	3.0	2.05	1.0	10 / 20	No
	pH	pH units	26	6.3	7.5	7.18	7.4	6.5-8.5	Yes
	Suspended Solids	mg/L	26	2.0	24.0	8.5	16.0	25 / 50	No
	Suspended Solids Corrected	mg/L	26	2.0	24.0	8.5	16.0	25 / 50	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	1620	73	6.0	na	-
	Total Nitrogen	mg/L	26	3.85	14.12	7.92	10.92	30 / 60	No
	Total Phosphorus	mg/L	26	0.22	1.2	0.58	0.945	6 / 12	No
Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
12/12/2016 to 11/12/2017  Published: 12 Feb	Ammonia	mg/L	26	<0.02	10.74	1.58	4.15	5 / 10	Yes
	BOD5	mg/L	26	<1.0	10.0	4.13	8.2	15 / 30	No
	Oil & Grease	mg/L	25	<2.0	3.0	2.11	2.49	10 / 20	No
	pH	pH units	26	6.9	7.7	7.25	7.45	6.5-8.5	No
	Suspended Solids	mg/L	25	5.0	24.0	12.73	21.6	25 / 50	No
	Suspended Solids Corrected	mg/L	26	<1.0	23.9	12.1	21.5	25 / 50	No
	Thermotolerant Coliforms	cfu/100 ml	24	<1	42000	1772	87.4	na	-
	Total Nitrogen	mg/L	26	3.89	17.38	8.01	11.005	30 / 60	No
	Total Phosphorus	mg/L	26	0.29	1.28	0.62	0.98	6 / 12	No

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
12/12/2017 to 11/12/2018  Published: 01 Jan	Ammonia	mg/L	26	<0.02	1.06	0.21	0.33	5 / 10	No
	BOD5	mg/L	26	<1.0	8.6	3.4	6.5	15 / 30	No
	Oil & Grease	mg/L	26	<2.0	4.0	2.17	1.5	10 / 20	No
	pH	pH units	26	6.6	7.5	7.12	7.3	6.5-8.5	No
	Suspended Solids	mg/L	26	2.6	26.5	10.01	15.4	25 / 50	No
	Suspended Solids Corrected	mg/L	26	2.6	26.2	9.93	15.4	25 / 50	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	28	6	14.5	na	-
	Total Nitrogen	mg/L	26	3.09	18.24	6.89	12.255	30 / 60	No
	Total Phosphorus	mg/L	26	0.2	0.99	0.54	0.89	6 / 12	No
Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
12/12/2018 to 11/12/2019  Published: 01 Jan	Ammonia	mg/L	26	<0.02	0.65	0.16	0.32	5 / 10	No
	BOD5	mg/L	26	<1.0	35.0	3.97	6.75	15 / 30	Yes
	Oil & Grease	mg/L	26	<2.0	4.1	2.12	1.15	10 / 20	No
	pH	pH units	26	6.6	8.4	7.17	7.4	6.5-8.5	No
	Suspended Solids	mg/L	26	2.0	44.0	10.0	13.5	25 / 50	No
	Suspended Solids Corrected	mg/L	26	2.0	44.0	9.98	13.5	25 / 50	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	3100	131	19.0	na	-
	Total Nitrogen	mg/L	26	2.39	13.8	7.26	11.67	30 / 60	No
	Total Phosphorus	mg/L	26	0.19	1.73	0.43	0.605	6 / 12	No

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
12/12/2019 to 11/12/2020  Published: 07 Jan	Ammonia	mg/L	26	<0.02	3.46	0.47	0.585	5 / 10	No
	BOD5	mg/L	26	2.8	18.0	6.78	12.4	15 / 30	No
	Oil & Grease	mg/L	26	<2	5	2	3.0	10 / 20	No
	pH	pH units	26	6.6	7.5	7.18	7.4	6.5-8.5	No
	Suspended Solids	mg/L	26	3.2	18.0	11.0	16.5	25 / 50	No
	Suspended Solids Corrected	mg/L	26	3.2	18.0	10.9	16.5	25 / 50	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	290000	12831	665.0	na	-
	Total Nitrogen	mg/L	26	2.99	7.99	4.97	6.28	30 / 60	No
	Total Phosphorus	mg/L	26	0.16	2.87	0.63	0.88	6 / 12	No
Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
12/12/2020 to 11/12/2021  Published: 12 Jan	Ammonia	mg/L	26	<0.02	9.9	1.01	1.335	5 / 10	No
	BOD5	mg/L	26	<1.0	65.0	9.21	13.0	15 / 30	Yes
	Oil & Grease	mg/L	26	<2	8	2	2.5	10 / 20	No
	pH	pH units	26	6.8	7.5	7.23	7.4	6.5-8.5	No
	Suspended Solids	mg/L	26	8.0	134.0	18.46	21.0	25 / 50	Yes
	Suspended Solids Corrected	mg/L	25	8.0	134.0	18.76	21.2	25 / 50	Yes
	Thermotolerant Coliforms	cfu/100 ml	24	<1	180000	77332	13240.0	na	-
	Total Nitrogen	mg/L	26	3.2	17.5	5.77	7.05	30 / 60	No
	Total Phosphorus	mg/L	26	0.37	3.45	0.72	0.895	6 / 12	No

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31/03/2012 to 30/11/2024



<b>Summary Period</b> <b>12/12/2021 to</b> <b>11/12/2022</b>  Published: 14 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	26	0.03	3.83	0.53	1.085	5 / 10	No
	BOD5	mg/L	26	1.8	14.0	6.1	10.45	15 / 30	No
	Oil & Grease	mg/L	26	<2	3	2	1.0	10 / 20	No
	pH	pH units	26	6.5	7.5	7.1	7.35	6.5-8.5	No
	Suspended Solids	mg/L	26	3.4	17.0	10.45	16.0	25 / 50	No
	Suspended Solids Corrected	mg/L	26	3.1	17.0	10.41	16.0	25 / 50	No
	Thermotolerant Coliforms	cfu/100 ml	22	<1	17000	885	14.7	na	-
	Total Nitrogen	mg/L	26	0.44	9.04	4.49	6.21	30 / 60	No
Total Phosphorus	mg/L	26	0.06	1.58	0.56	0.905	6 / 12	No	
<b>Summary Period</b> <b>12/12/2022 to</b> <b>11/12/2023</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	25	0.03	0.51	0.21	0.374	5 / 10	No
	BOD5	mg/L	25	2.1	11.0	5.57	9.18	15 / 30	No
	Oil & Grease	mg/L	25	<2	2	2	0.0	10 / 20	No
	pH	pH units	25	6.9	7.7	7.22	7.46	6.5-8.5	No
	Suspended Solids	mg/L	25	<1.0	15.0	8.39	14.0	25 / 50	No
	Suspended Solids Corrected	mg/L	3	3.2	9.0	6.17	8.46	25 / 50	No
	Thermotolerant Coliforms	cfu/100 ml	23	<1	4500	206	26.8	na	-
	Total Nitrogen	mg/L	25	2.72	5.09	3.92	4.76	30 / 60	No
Total Phosphorus	mg/L	25	0.28	4.23	0.93	2.368	6 / 12	No	
<b>Summary Period</b> <b>12/12/2023 to</b> <b>11/12/2024</b>  Published: 11 Nov	<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	27	0.05	27.4	1.6	1.762	5 / 10	Yes
	BOD5	mg/L	27	<1.0	17.0	5.86	11.8	15 / 30	No
	Oil & Grease	mg/L	27	<2	2	2	0.0	10 / 20	No
	pH	pH units	27	4.6	9.0	7.23	7.54	6.5-8.5	Yes
	Suspended Solids	mg/L	27	<1.0	70.0	9.76	13.0	25 / 50	Yes
	Thermotolerant Coliforms	cfu/100 ml	27	<1	56000	6639	15140.0	na	-
	Total Nitrogen	mg/L	27	1.89	30.7	4.69	5.806	30 / 60	No
Total Phosphorus	mg/L	27	0.59	8.51	2.95	5.172	6 / 12	No	

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