

## **Data summary tables for Thames Water (TMS)**

These tables contain a summary of results of monitoring undertaken by the water company in 2019 and submitted to the Drinking Water Inspectorate. The tables are published by the Inspectorate as part of the Chief Inspector's Report entitled *Drinking water 2019*.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.gov.uk/>

### **Notes relating to the interpretation of the tables:**

Columns on the following tables that are headed '1 percentile representing a minimum' and '99 percentile representing a maximum' contain figures for the 1 percentile and 99 percentile sample results respectively except where less than 100 samples were taken, when the figures are the actual maximum and minimum results.

The symbol < indicates that the result was less than the limit of detection of the analytical method used.

Published 9 July 2020  
Drinking Water Inspectorate  
Area 5B  
Nobel House  
17 Smith Square  
London  
SW1P 3JR

Enquiries: 0300 068 6400

Site Summary Data for Thames Water Utilities Ltd

Report Date Range: For the whole year 2019

**Table TMS 1: Quality of water leaving service treatment works - European Standards**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
Nitrite (Total)	A013B	0.1 mg NO <sub>2</sub> /l	4,388	0	< 0.01	0.01	0
<b>Totals:</b>			<b>4,388</b>	<b>0</b>			

**Table TMS 2: Quality of water leaving service treatment works - National Standards**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	17,495	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	17,495	1	0	0	1
<b>Totals:</b>			<b>34,990</b>	<b>1</b>			

**Table TMS 3: Quality of water leaving service treatment works - Additional Monitoring Requirements**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	17,511	-n/a	0	14
Residual Disinfectant - Total	C010	No abnormal change	17,528	-n/a	0.29	0.92
Turbidity - Indicator	A002A	1 NTU	17,505	1	< 0.09	0.1
<b>Totals:</b>			<b>52,544</b>	<b>1</b>		

Table TMS 4: Quality of water leaving service reservoirs - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of reservoirs failing standard
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	18,833	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	18,833	12	0	0	0
<b>Totals:</b>			<b>37,666</b>	<b>12</b>			

Table TMS 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22øc (Colony Counts)	C007	No abnormal change	18,824	-n/a	0	19
Residual Disinfectant - Total	C010	No abnormal change	18,901	-n/a	0.12	0.74
<b>Totals:</b>			<b>37,725</b>	<b>0</b>		

Table TMS 6: Quality of water leaving bulk supply points - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
Bromate	F003	10 µg BrO3/l	705	0	< 0.3	2.8	0
Cyanide (Total)	B003	50 µg CN/l	707	0	< 0.5	4.236	0
Mercury (Total)	B005	1 µg Hg/l	705	0	< 0.03	< 0.07	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	738	0	0	0.07561	0
Pesticides 2 4-D	P020	0.1 µg/l	713	0	< 0.004	< 0.005	0
Pesticides 2 4-DB	P082	0.1 µg/l	713	0	< 0.005	< 0.016	0
Pesticides 2,4,5-T	P076	0.1 µg/l	712	0	< 0.004	< 0.005	0
Pesticides Ametryn	P222	0.1 µg/l	704	0	< 0.001	< 0.001	0
Pesticides Atrazine	P004	0.1 µg/l	704	0	< 0.002	0.037	0
Pesticides Bentazone	P006	0.1 µg/l	713	0	< 0.004	< 0.012	0
Pesticides Bromoxynil	P008	0.1 µg/l	713	0	< 0.005	< 0.006	0
Pesticides Carbenazim (Total)	P150	0.1 µg/l	704	0	< 0.004	< 0.004	0
Pesticides Carbetamide	P010	0.1 µg/l	704	0	< 0.002	0.003	0
Pesticides Chlortoluron	P014	0.1 µg/l	704	0	< 0.002	< 0.00495	0
Pesticides Clopyralid	P018	0.1 µg/l	713	0	< 0.007	0.02172	0
Pesticides Dicamba	P025	0.1 µg/l	713	0	< 0.007	< 0.007	0
Pesticides Dichlorprop	P026	0.1 µg/l	713	0	< 0.004	< 0.004	0
Pesticides Diuron	P032	0.1 µg/l	704	0	< 0.002	0.024	0
Pesticides Fenoprop	P105	0.1 µg/l	712	0	< 0.003	< 0.004	0
Pesticides Flufenacet	P230	0.1 µg/l	184	0	< 0.001	0.00315	0
Pesticides Fluroxypyr	P040	0.1 µg/l	713	0	< 0.005	< 0.006	0
Pesticides Ioxynil	P049	0.1 µg/l	712	0	< 0.005	< 0.005	0
Pesticides Isoproturon	P048	0.1 µg/l	704	0	< 0.001	< 0.001	0
Pesticides Linuron	P051	0.1 µg/l	704	0	< 0.002	< 0.002	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	713	0	< 0.006	< 0.006	0
Pesticides MCPB	P055	0.1 µg/l	712	0	< 0.003	0.00887	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	713	0	< 0.005	0.008	0
Pesticides Metaldehyde	P226	0.1 µg/l	707	0	< 0.004	0.02584	0
Pesticides Metazachlor	P203	0.1 µg/l	192	0	< 0.001	0.001	0
Pesticides Monuron	P113	0.1 µg/l	704	0	< 0.002	0.006	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	713	0	< 0.003	< 0.004	0
Pesticides Picloram (Total)	P122	0.1 µg/l	713	0	< 0.007	0.01544	0
Pesticides Prometryne	P070	0.1 µg/l	704	0	< 0.002	< 0.002	0
Pesticides Propazine	P066	0.1 µg/l	704	0	< 0.002	0.002	0
Pesticides Propyzamide	P071	0.1 µg/l	704	0	< 0.002	0.007	0
Pesticides Quinmerac	P244	0.1 µg/l	192	0	< 0.002	0.00407	0
Pesticides Simazine	P073	0.1 µg/l	704	0	< 0.003	0.01885	0
Pesticides Tebuthiuron	P189	0.1 µg/l	704	0	< 0.001	< 0.001	0
Pesticides Terbutryn	P077	0.1 µg/l	704	0	< 0.001	< 0.001	0
Pesticides Triclopyr	P131	0.1 µg/l	713	0	< 0.005	< 0.01446	0
Radon	F031	100 Bq/l	9	0	1.5	2.2	0
<b>Totals:</b>			<b>26,816</b>	<b>0</b>			

Table TMS 8: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	710	0	0	0
Gross Alpha	F004	0.1 Bq/l	182	0	< 0.03	0.0817
Gross Beta	F005	1 Bq/l	186	0	< 0.03	0.2939
Total Organic Carbon	A017	No abnormal change	705	-n/a	< 0.3	3.2
Tritium	F006	100 Bq/l	24	0	2.2	6.71
<b>Totals:</b>			<b>1,807</b>	<b>0</b>		

Table TMS 9: Quality of water at consumer's tap (zones) - European Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
1 2-Dichloroethane (Total)	F001	3 µg/l	2,156	0	< 0.1	< 0.1	0
Antimony	B008A	5 µg Sb/l	1,956	0	< 0.2	0.6	0
Arsenic (Total)	B001A	10 µg As/l	1,956	0	< 0.2	1.3	0
Benzene (Total)	F002	1 µg/l	2,158	0	< 0.1	< 0.1	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	2,166	0	< 0.001	< 0.001	0
Boron	D005A	1 mg B/l	1,956	0	0.013	0.1	0
Bromate	F003	10 µg BrO3/l	121	0	< 0.3	4.358	0
Cadmium (Total)	B002	5 µg Cd/l	1,956	0	< 0.1	< 0.1	0
Chromium (Total)	B004	50 µg Cr/l	1,956	0	< 0.9	1.6	0
Copper (Total)	A024A	2 mg Cu/l	1,970	0	< 0.002	0.31835	0
Cyanide (Total)	B003	50 µg CN/l	9	0	< 0.5	2.4	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	26,137	13	0	0	13
Enterococci (Confirmed)	C003	0 number/100 ml	1,942	1	0	0	1
Fluoride (Total)	A027	1.5 mg F/l	1,935	0	0.071	0.45264	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	1,965	16	< 0.2	9.27	15
Mercury (Total)	B005	1 µg Hg/l	9	0	< 0.03	< 0.04	0
Nickel (Total)	B006A	20 µg Ni/l	1,950	2	< 0.6	6.549	2
Nitrate (Total)	A012	50 mg NO3/l	7,368	0	8.2	41.2	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	7,368	0	< 0.01	0.22	0
Nitrite/Nitrate formula	A013C	1 mg/l	7,368	0	0.16	0.83	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	10	0	0	0.117	0
Pesticides 2 4-D	P020	0.1 µg/l	9	0	< 0.004	0.007	0
Pesticides 2 4-DB	P082	0.1 µg/l	9	0	< 0.005	< 0.005	0
Pesticides 2,4,5-T	P076	0.1 µg/l	9	0	< 0.004	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	9	0	< 0.007	< 0.007	0
Pesticides Ametryn	P222	0.1 µg/l	9	0	< 0.001	< 0.001	0
Pesticides Atrazine	P004	0.1 µg/l	9	0	< 0.002	< 0.002	0
Pesticides Bentazone	P006	0.1 µg/l	9	0	< 0.004	< 0.005	0
Pesticides Bromoxynil	P008	0.1 µg/l	9	0	< 0.005	< 0.006	0
Pesticides Carbenazim (Total)	P150	0.1 µg/l	9	0	< 0.004	< 0.004	0
Pesticides Carbetamide	P010	0.1 µg/l	9	0	< 0.002	0.007	0
Pesticides Chlortoluron	P014	0.1 µg/l	9	0	< 0.002	< 0.002	0
Pesticides Clopyralid	P018	0.1 µg/l	9	0	< 0.007	0.034	0
Pesticides Dicamba	P025	0.1 µg/l	9	0	< 0.007	< 0.007	0
Pesticides Dichlorprop	P026	0.1 µg/l	9	0	< 0.004	< 0.004	0
Pesticides Dieldrin	P028	0.03 µg/l	9	0	< 0.006	< 0.007	0
Pesticides Diuron	P032	0.1 µg/l	9	0	< 0.002	< 0.002	0
Pesticides Fenoprop	P105	0.1 µg/l	9	0	< 0.003	< 0.004	0
Pesticides Flufenacet	P230	0.1 µg/l	9	0	< 0.001	0.001	0

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
Pesticides Fluroxypyr	P040	0.1 µg/l	9	0	< 0.005	0.006	0
Pesticides Heptachlor	P043	0.03 µg/l	9	0	< 0.007	< 0.007	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	9	0	< 0.012	< 0.012	0
Pesticides Ioxynil	P049	0.1 µg/l	9	0	< 0.005	< 0.005	0
Pesticides Isoproturon	P048	0.1 µg/l	9	0	< 0.001	< 0.001	0
Pesticides Linuron	P051	0.1 µg/l	9	0	< 0.002	< 0.002	0
Pesticides MCPA 4-chloro-o-tolyoxyacetic acid	P054	0.1 µg/l	9	0	< 0.006	< 0.006	0
Pesticides MCPB	P055	0.1 µg/l	9	0	< 0.003	< 0.004	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	9	0	< 0.005	< 0.008	0
Pesticides Metaldehyde	P226	0.1 µg/l	9	0	< 0.005	0.07	0
Pesticides Metazachlor	P203	0.1 µg/l	9	0	< 0.001	0.005	0
Pesticides Monuron	P113	0.1 µg/l	9	0	< 0.002	< 0.002	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	9	0	< 0.003	< 0.004	0
Pesticides Picloram (Total)	P122	0.1 µg/l	9	0	< 0.007	< 0.008	0
Pesticides Prometryne	P070	0.1 µg/l	9	0	< 0.002	< 0.002	0
Pesticides Propazine	P066	0.1 µg/l	9	0	< 0.002	< 0.002	0
Pesticides Propyzamide	P071	0.1 µg/l	9	0	< 0.002	0.012	0
Pesticides Quinmerac	P244	0.1 µg/l	9	0	< 0.002	0.01	0
Pesticides Simazine	P073	0.1 µg/l	9	0	< 0.003	< 0.003	0
Pesticides Tebuthiuron	P189	0.1 µg/l	9	0	< 0.001	< 0.001	0
Pesticides Terbutryn	P077	0.1 µg/l	9	0	< 0.001	< 0.001	0
Pesticides Triclopyr	P131	0.1 µg/l	9	0	< 0.005	0.006	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	2,114	0	0	0.003	0
Selenium (Total)	B009	10 µg Se/l	1,956	0	< 0.6	2.443	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	2,158	0	0	1.3	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	2,158	0	1.6	32.641	0
<b>Totals:</b>			<b>83,158</b>	<b>32</b>			

**Table TMS 10: Quality of water at consumer's tap (zones) - National Standards**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
Aluminium (Total)	A021	200 µg Al/l	8,742	2	2.745	22.9	2
Colour	A001	20 mg/l Pt/Co	9,283	0	< 1	3.2	0
Iron (Total)	A022	200 µg Fe/l	9,073	4	< 1.2	31.624	4
Manganese (Total)	A023	50 µg Mn/l	8,742	0	< 0.2	1.8	0
Odour	A003	0 Dilution number at 25°C	9,344	2	0	0	2
Sodium (Total)	A009	200 mg Na/l	1,956	0	6.2	53.643	0
Taste (Taste Quant)	A004	0 Dilution number at 25°C	9,307	0	0	0	0
Tetrachloromethane (Total)	D008	3 µg/l	2,157	0	< 0.1	0.2	0
Turbidity	A002	4 NTU	9,284	0	< 0.09	0.16	0
<b>Totals:</b>			<b>67,888</b>	<b>8</b>			

**Table TMS 11: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements**

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium (Total)	A014	0.5 mg NH <sub>4</sub> /l	7,350	0	< 0.03	0.23
Chloride	D002A	250 mg Cl/l	1,951	0	12.5812	77.428
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	9	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	26,137	82	0	0
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	9,318	-n/a	0	112
Conductivity (Electrical Conductivity)	D001	2500 µS/cm at 20°C	9,283	0	372.86	768
Gross Alpha	F004	0.1 Bq/l	9	0	< 0.03	0.04
Gross Beta	F005	1 Bq/l	9	0	0.05	0.3
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	9,283	0	7	7.9
Residual Disinfectant - Total	C010	No abnormal change	26,219	-n/a	0.18	0.85
Sulphate	A007	250 mg SO <sub>4</sub> /l	1,950	0	8.902	81.092
Total Organic Carbon	A017	No abnormal change	9	-n/a	0.6	3.3
<b>Totals:</b>			<b>91,527</b>	<b>82</b>		