

Data Summary Tables for Thames Water (TMS)

These tables represent a summary of test results from water samples taken by the water company in 2005 and submitted to the Drinking Water Inspectorate.

These tables are published annually by the Inspectorate as part of the Chief Inspector's Report. They are available on the Inspectorate's website at www.dwi.gov.uk

Notes relating to the interpretation of the tables : -

Columns on the following tables that are headed "Maximum" and "Minimum" contain figures for the 1 percentile and 99 percentile sample results 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.

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

Number of treatment works = 105

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	0.1 mg NO ₂ /l	4537	0	<0.01	0.01	0
TOTAL	-	4537	0	-	-	-

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

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Coliform Bacteria	0 number/100 ml	13492	6	0	0	5
Cryptosporidium	Oocyst concentration / 10 l	4264	0	<0.01	<0.02	0
<i>E. coli</i>	0 number/100 ml	13491	1	0	0	1
TOTAL	-	31247	7	-	-	-

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	17729	0	0	32
Colony Counts After 48 Hours At 37°C	No abnormal change	17730	0	0	8
Residual Disinfectant - Total	No abnormal change	14188	0	0.23	0.93
Turbidity	1 NTU	19536	38	<0.09	0.28
TOTAL	-	69183	38	-	-

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

Number of service reservoirs = 371

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	19170	34	0	0	2*
<i>E. coli</i>	0 number/100 ml	19170	1	0	0	1
TOTAL	-	38340	35	-	-	-

* Compliance was 92.31% for SR RSR0054 based on the 52 samples taken in the period Jan - Dec 2005

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for RSR0264 STOW HILL B

Compliance was 94% for SR RSR0294 KNOCKHOLT OLD based on the previous 50 samples taken in the period Dec 2004 - Dec 2005

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

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	19141	0	275
Colony Counts After 48 Hours At 37°C	No abnormal change	19137	0	37
Residual Disinfectant - Total	No abnormal change	19227	0.05	0.73
TOTAL	-	57505	-	-

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

Number of supply points = 103

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Bromate	10 µg BrO ₃ /l	867	0	<0.6	3.832	0
Cyanide	50 µg CN/l	873	0	<2	4.26	0
Mercury	1 µg Hg/l	887	0	<0.05	0.31	0
Pesticides (2,3,6-Tba)	0.1 µg/l	912	0	<0.004	<0.004	0
Pesticides (2,4,5-T)	0.1 µg/l	912	0	<0.002	<0.002	0
Pesticides (2,4,-Db)	0.1 µg/l	912	0	<0.004	<0.004	0
Pesticides (2,4-D)	0.1 µg/l	912	0	<0.002	0.004	0
Pesticides (Ametryn)	0.1 µg/l	922	0	<0.02	<0.02	0
Pesticides (Atrazine)	0.1 µg/l	923	0	<0.01	0.045	0
Pesticides (Bentazone)	0.1 µg/l	911	0	<0.003	0.018	0
Pesticides (Bromoxynil)	0.1 µg/l	912	0	<0.002	<0.002	0
Pesticides (Carbetamide)	0.1 µg/l	920	0	<0.02	0.021	0
Pesticides (Chlortoluron)	0.1 µg/l	923	0	<0.02	<0.022	0
Pesticides (Dicamba)	0.1 µg/l	912	0	<0.004	<0.004	0
Pesticides (Dichlorprop)	0.1 µg/l	912	0	<0.003	<0.003	0
Pesticides (Diuron)	0.1 µg/l	923	1	<0.02	0.031	1
Pesticides (Fenoprop)	0.1 µg/l	912	0	<0.002	<0.002	0
Pesticides (Fluroxypyr)	0.1 µg/l	912	0	<0.004	<0.004	0
Pesticides (Ioxynil)	0.1 µg/l	912	0	<0.001	<0.001	0
Pesticides (Isoproturon)	0.1 µg/l	924	0	<0.02	0.024	0
Pesticides (Linuron)	0.1 µg/l	923	0	<0.02	<0.02	0
Pesticides (MCPA)	0.1 µg/l	912	0	<0.002	<0.002	0
Pesticides (MCPB)	0.1 µg/l	912	0	<0.002	<0.002	0
Pesticides (MCPB(Mecoprop))	0.1 µg/l	912	0	<0.003	0.0149	0
Pesticides (Monuron)	0.1 µg/l	923	0	<0.02	0.034	0
Pesticides (Pentachlorophenol)	0.1 µg/l	912	0	<0.002	0.002	0
Pesticides (Picloram)	0.1 µg/l	912	0	<0.01	<0.01	0
Pesticides (Prometryn)	0.1 µg/l	922	0	<0.03	<0.03	0
Pesticides (Propazine)	0.1 µg/l	923	0	<0.02	<0.02	0
Pesticides (Propyzamide)	0.1 µg/l	923	0	<0.04	<0.04	0
Pesticides (Simazine)	0.1 µg/l	920	0	<0.01	0.024	0
Pesticides (Tebuthiuron)	0.1 µg/l	923	0	<0.02	<0.02	0
Pesticides (Terbutryn)	0.1 µg/l	922	0	<0.03	<0.03	0
Pesticides (Trichlopyr)	0.1 µg/l	912	0	<0.002	<0.002	0
Pesticides - Total Substances	0.5 µg/l	936	1	0	0.101	1
TOTAL	-	31980	2	-	-	-

Table TMS 7: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
<i>Clostridium perfringens</i>	0 number/100 ml	1534	0	0	0
Radioactivity - Gross Alpha	0.1 Bq/l	302	0	<0.03	0.08
Radioactivity - Gross Beta	1 Bq/l	302	0	0.04	0.26
Total Organic Carbon (TOC)	No abnormal change	881	0	0.3	3.1
TOTAL	-	3019	0	-	-

Table TMS 8: Quality of water at consumer's tap (zones) - European Standards

Number of zones = 243

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	1858	0	<0.1	<0.1	0
Antimony	5 µg Sb/l	1875	4	<0.5	2.6	4
Arsenic	10 µg As/l	1873	0	<0.8	1.6	0
Benzene	1 µg/l	1858	0	<0.1	<0.1	0
Benzo (a) Pyrene	0.01 µg/l	1867	0	<0.001	<0.001	0
Boron	1 mg B/l	1868	0	<0.07	0.16562	0
Bromate	10 µg BrO ₃ /l	149	0	<0.6	6.35	0
Cadmium	5 µg Cd/l	1864	0	<0.5	<0.5	0
Chromium	50 µg Cr/l	1865	0	<5	15	0
Copper	2 mg Cu/l	1950	0	<0.002	0.38137	0
Cyanide	50 µg CN/l	13	0	<2	<2	0
<i>E. coli</i>	0 number/100 ml	21373	11	0	0	11
Enterococci	0 number/100 ml	1978	1	0	0	1
Fluoride	1.5 mg F/l	1860	0	0.06961	0.70119	0
Lead	25 µg Pb/l	11147	44	<0.5	16.804	38
Mercury	1 µg Hg/l	13	0	<0.05	0.28	0
Nickel	20 µg Ni/l	1882	8	<2	13	7
Nitrate	50 mg NO ₃ /l	6501	3	6.302	41.698	3
Nitrite	0.5 mg NO ₂ /l	6502	0	<0.01	0.13	0
Nitrate/Nitrite Formula	≤ 1	6501	3	<0.3	0.83	3
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	1866	0	0	0.00233	0
Selenium	10 µg Se/l	1873	0	<0.5	4.5	0
Tetrachloroethene/Trichloroethene	10 µg/l	1874	0	0	1.7	0
Trihalomethanes (THMs)	100 µg/l	1876	0	0	37.423	0
Pesticides (2,3,6-Tba)	0.1 µg/l	13	0	<0.004	<0.004	0
Pesticides (2,4,5-T)	0.1 µg/l	13	0	<0.002	<0.002	0
Pesticides (2,4,-Db)	0.1 µg/l	13	0	<0.004	<0.004	0
Pesticides (2,4-D)	0.1 µg/l	13	0	<0.002	0.002	0
Pesticides (Ametryn)	0.1 µg/l	13	0	<0.02	<0.02	0
Pesticides (Atrazine)	0.1 µg/l	13	0	<0.01	0.017	0
Pesticides (Bentazone)	0.1 µg/l	13	0	<0.003	<0.003	0
Pesticides (Bromoxynil)	0.1 µg/l	13	0	<0.002	<0.002	0
Pesticides (Carbetamide)	0.1 µg/l	13	0	<0.02	0.021	0
Pesticides (Chlortoluron)	0.1 µg/l	13	0	<0.02	<0.02	0
Pesticides (Dicamba)	0.1 µg/l	13	0	<0.004	<0.004	0

Pesticides (Dichlorprop)	0.1 µg/l	13	0	<0.003	<0.003	0
Pesticides (Diuron)	0.1 µg/l	13	0	<0.02	<0.02	0
Pesticides (Fenoprop)	0.1 µg/l	13	0	<0.002	<0.002	0
Pesticides (Fluroxypyr)	0.1 µg/l	13	0	<0.004	<0.004	0
Pesticides (Ioxynil)	0.1 µg/l	13	0	<0.001	<0.001	0
Pesticides (Isoproturon)	0.1 µg/l	13	0	<0.02	<0.02	0
Pesticides (Linuron)	0.1 µg/l	13	0	<0.02	<0.02	0
Pesticides (MCPA)	0.1 µg/l	13	0	<0.002	<0.002	0
Pesticides (MCPB)	0.1 µg/l	13	0	<0.002	<0.002	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	13	0	<0.003	0.005	0
Pesticides (Monuron)	0.1 µg/l	13	0	<0.02	<0.02	0
Pesticides (Pentachlorophenol)	0.1 µg/l	13	0	<0.002	<0.002	0
Pesticides (Picloram)	0.1 µg/l	13	0	<0.01	<0.01	0
Pesticides (Prometryn)	0.1 µg/l	13	0	<0.03	<0.03	0
Pesticides (Propazine)	0.1 µg/l	13	0	<0.02	<0.02	0
Pesticides (Propyzamide)	0.1 µg/l	13	0	<0.04	<0.04	0
Pesticides (Simazine)	0.1 µg/l	13	0	<0.01	0.019	0
Pesticides (Tebuthiuron)	0.1 µg/l	13	0	<0.02	<0.02	0
Pesticides (Terbutryn)	0.1 µg/l	13	0	<0.03	<0.03	0
Pesticides (Trichlopyr)	0.1 µg/l	13	0	<0.002	0.002	0
Pesticides - Total Substances	0.5 µg/l	13	0	0	0.041	0
TOTAL	-	82702	74	-	-	-

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

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Aluminium	200 µg Al/l	4497	0	<15	42.02	0
Colour	20 mg/l Pt/Co scale	4631	1	<0.6	3.068	1
Hydrogen ion (pH)	6.5 - 10 pH value	5093	0	7.1	8.4	0
Iron	200 µg Fe/l	5938	16	<12	88.22	16
Manganese	50 µg Mn/l	4230	3	<3	4	3
Organoleptic Odour	Dilution No. 3 at 25°C	4629	1	0	0	1
Organoleptic Taste	Dilution No. 3 at 25°C	4587	4	0	0	4
Sodium	200 mg Na/l	1870	1	5.3	66.074	1
Tetrachloromethane	3 µg/l	1874	0	<0.2	<0.2	0
Turbidity	4 NTU	4620	1	<0.09	0.32	1
TOTAL	-	41969	27	-	-	-

Table TMS 10: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Ammonium	0.5 mg NH ₄ /l	4719	0	<0.05	0.19
Chloride	250 mg Cl/l	1874	0	12	81
<i>Clostridium perfringens</i>	0 number/100 ml	5699	3	0	0
Coliform Bacteria	0 number/100 ml	21373	190	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	8144	0	0	136
Colony Counts After 48 Hours At 37°C	No abnormal change	8142	0	0	85
Conductivity	2500 µS/cm	4431	0	399.24	776
Hydrogen ion (pH)	9.5 pH Value	5093	0	7.1	8.4
Radioactivity - Gross Alpha	0.1 Bq/l	8	0	<0.03	0.03
Radioactivity - Gross Beta	1 Bq/l	8	0	0.04	0.16
Residual Disinfectant - Total	No abnormal change	21427	0	0.1	0.71
Sulphate	250 mg SO ₄ /l	1875	0	6.876	95.516
Total Organic Carbon (TOC)	No abnormal change	13	0	0.7	3.8
TOTAL	-	82806	193	-	-