

Data Summary Tables for Tendring Hundred Water (THD)

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

Number of treatment works = 3

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	22	0	<0.003	<0.008	0
TOTAL	-	22	0	-	-	-

Table THD 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	522	0	0	0	0
<i>E. coli</i>	0 number/100 ml	522	0	0	0	0
TOTAL	-	1044	0	-	-	-

Table THD 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	520	0	0	3
Colony Counts After 48 Hours At 37°C	No abnormal change	521	0	0	4
Residual Disinfectant - Total	No abnormal change	522	0	0.11	1.145
Turbidity	1 NTU	530	1	0.04	0.361
TOTAL	-	2093	1	-	-

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

Number of service reservoirs = 7

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	364	0	0	0	0
<i>E. coli</i>	0 number/100 ml	364	0	0	0	0
TOTAL	-	728	0	-	-	-

Table THD 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	364	0	22
Colony Counts After 48 Hours At 37°C	No abnormal change	364	0	8
Residual Disinfectant - Total	No abnormal change	364	0.03	0.7
TOTAL	-	1092	-	-

Table THD 6: Quality of water at consumer's tap (zones) - European Standards

Number of zones = 4

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	32	0	<0.3	<0.3	0
Antimony	5 µg Sb/l	32	0	<0.2	0.47	0
Arsenic	10 µg As/l	32	0	<1	<1	0
Benzene	1 µg/l	32	0	<0.1	<0.1	0
Benzo (a) Pyrene	0.01 µg/l	32	0	<0.0005	0.0081	0
Boron	1 mg B/l	32	0	<0.1	0.16	0
Bromate	10 µg BrO ₃ /l	32	0	<0.5	5	0
Cadmium	5 µg Cd/l	32	0	<0.2	<0.2	0
Chromium	50 µg Cr/l	32	0	<2	8.5	0
Copper	2 mg Cu/l	32	0	<0.01	1.41	0
Cyanide	50 µg CN/l	32	0	<3	6	0
<i>E. coli</i>	0 number/100 ml	384	0	0	0	0
Enterococci	0 number/100 ml	32	0	0	0	0
Fluoride	1.5 mg F/l	32	0	0.225	0.966	0
Lead	25 µg Pb/l	32	0	<1	10.4	0
Mercury	1 µg Hg/l	32	0	<0.1	<0.1	0
Nickel	20 µg Ni/l	32	0	<2	11.2	0
Nitrate	50 mg NO ₃ /l	32	0	2.1	24.2	0
Nitrite	0.5 mg NO ₂ /l	32	0	<0.008	<0.008	0
Nitrate/Nitrite Formula	≤ 1	32	0	<0.042	<0.484	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	32	0	0	0.016	0
Selenium	10 µg Se/l	32	0	<1	3.65	0
Tetrachloroethene/Trichloroethene	10 µg/l	32	0	0	0	0
Trihalomethanes (THMs)	100 µg/l	32	0	9.7	69.9	0
Pesticides (2,4-D)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Aldrin)	0.03 µg/l	32	0	<0.008	<0.008	0
Pesticides (Atrazine)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Bentazone)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Carbetamide)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Chlortoluron)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Clopyralid)	0.1 µg/l	32	0	<0.02	0.03	0
Pesticides (Cyanazine)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Dicamba)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Dichlorprop)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Dieldrin)	0.03 µg/l	32	0	<0.008	<0.008	0

Pesticides (Diuron)	0.1 µg/l	32	0	<0.01	0.01	0
Pesticides (Fluroxypyr)	0.1 µg/l	32	0	<0.02	<0.02	0
Pesticides (Heptachlor)	0.03 µg/l	32	0	<0.008	<0.008	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	32	0	<0.008	<0.008	0
Pesticides (Isoproturon)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (Linuron)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (MCPA)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides (MCPB)	0.1 µg/l	32	0	<0.01	0.01	0
Pesticides (MCPB(Mecoprop))	0.1 µg/l	32	0	<0.01	0.02	0
Pesticides (Simazine)	0.1 µg/l	32	0	<0.01	0.03	0
Pesticides (Trietazine)	0.1 µg/l	32	0	<0.01	<0.01	0
Pesticides - Total Substances	0.5 µg/l	32	0	0	0.05	0
TOTAL	-	1856	0	-	-	-

Table THD 7: 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	46	0	<5	<5	0
Colour	20 mg/l Pt/Co scale	66	0	<1	1.3	0
Hydrogen ion (pH)	6.5 - 10 pH value	132	0	7.033	7.9	0
Iron	200 µg Fe/l	76	0	<15	47.2	0
Manganese	50 µg Mn/l	46	0	<2	2.02	0
Organoleptic Odour	Dilution No. 3 at 25°C	66	0	0	<1	0
Organoleptic Taste	Dilution No. 3 at 25°C	66	0	0	0	0
Sodium	200 mg Na/l	32	1	41.4	219	1
Tetrachloromethane	3 µg/l	32	0	<0.3	<0.3	0
Turbidity	4 NTU	132	0	0.05	0.427	0
TOTAL	-	694	1	-	-	-

Table THD 8: 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	66	0	<0.04	<0.04
Chloride	250 mg Cl/l	32	0	69	93
<i>Clostridium perfringens</i>	0 number/100 ml	76	0	0	0
Coliform Bacteria	0 number/100 ml	384	1	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	132	0	0	77
Colony Counts After 48 Hours At 37°C	No abnormal change	132	0	0	85
Conductivity	2500 µS/cm	132	0	610.54	816.34
Hydrogen ion (pH)	9.5 pH Value	132	0	7.033	7.9
Radioactivity - Gross Alpha	0.1 Bq/l	32	0	<0.03	0.06
Radioactivity - Gross Beta	1 Bq/l	32	0	<0.03	0.31
Radioactivity - Tritium	100 Bq/l	24	0	<10	<10
Residual Disinfectant - Total	No abnormal change	384	0	0.02	0.448
Sulphate	250 mg SO ₄ /l	32	0	67	118
Total Organic Carbon (TOC)	No abnormal change	32	0	1.4	5
TOTAL	-	1622	1	-	-