

## **Data Summary Tables for United Utilities Water (UU)**

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](http://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 UUT 1: Quality of water leaving service treatment works - European Standards**

**Number of treatment works = 102**

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	0.1 mg NO <sub>2</sub> /l	900	1	<0.003	0.007	1
<b>TOTAL</b>	-	<b>900</b>	<b>1</b>	-	-	-

**Table UUT 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	19370	22	0	0	15
Cryptosporidium	Oocyst concentration / 10 l	6549	1	<0.01	0.02	0
<i>E. coli</i>	0 number/100 ml	19372	6	0	0	5
<b>TOTAL</b>	-	<b>45291</b>	<b>28</b>	-	-	-

**Table UUT 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	19344	0	0	8
Colony Counts After 48 Hours At 37°C	No abnormal change	19344	0	0	6
Residual Disinfectant - Free	No abnormal change	19387	0	0.15	1.54
Residual Disinfectant - Total	No abnormal change	19387	0	0.2	1.65
Turbidity	1 NTU	19297	109	<0.04	0.8
<b>TOTAL</b>	-	<b>96759</b>	<b>109</b>	-	-

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

**Number of service reservoirs = 391**

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	20099	23	0	0	2*
<i>E. coli</i>	0 number/100 ml	20099	6	0	0	6
<b>TOTAL</b>	-	<b>40198</b>	<b>29</b>	-	-	-

\* Compliance was 94.23% for SR R070 based on the 52 samples taken in the period Jan - Dec 2005

Compliance was 94.23% for SR R158 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 R428 Demmings Moss SR*

*It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R430 Bankwood SR*

*It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R432 Prescot North SR*

*It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R433 Prescot South SR*

*It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R434 Kendal SR*

*It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R435 Coldwell SR*

**Table UUT 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	20092	0	11
Colony Counts After 48 Hours At 37°C	No abnormal change	20092	0	3
Residual Disinfectant - Free	No abnormal change	20102	0.05	1.25
Residual Disinfectant - Total	No abnormal change	20102	0.12	1.32
<b>TOTAL</b>	-	<b>80388</b>	-	-

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

Number of supply points = 102

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
1,2 Dichloroethane	3 µg/l	877	0	<0.041	<0.1	0
Benzene	1 µg/l	874	0	<0.034	<0.1	0
Boron	1 mg B/l	870	0	<0.002	0.068	0
Cyanide	50 µg CN/l	866	0	<0.54	1.679	0
Fluoride	1.5 mg F/l	871	0	0.02	0.933	0
Mercury	1 µg Hg/l	871	1	<0.031	0.104	1
Pesticides (2,4,5-T)	0.1 µg/l	911	0	<0.008	<0.01	0
Pesticides (2,4,-Db)	0.1 µg/l	909	0	<0.008	<0.01	0
Pesticides (2,4-D)	0.1 µg/l	906	0	<0.007	<0.01	0
Pesticides (Aldrin)	0.03 µg/l	973	0	<0.003	<0.003	0
Pesticides (Atrazine)	0.1 µg/l	972	1	<0.002	0.01	1
Pesticides (Bromoxynil)	0.1 µg/l	911	0	<0.004	<0.01	0
Pesticides (Carbendazim)	0.1 µg/l	913	0	<0.006	<0.01	0
Pesticides (Carbofuran)	0.1 µg/l	912	0	<0.006	<0.01	0
Pesticides (Chlortoluron)	0.1 µg/l	913	0	<0.004	<0.01	0
Pesticides (Cyanazine)	0.1 µg/l	912	0	<0.003	<0.01	0
Pesticides (Diazinon)	0.1 µg/l	964	0	<0.004	<0.01	0
Pesticides (Dicamba)	0.1 µg/l	909	1	<0.008	<0.01	1
Pesticides (Dichlorprop)	0.1 µg/l	905	0	<0.006	<0.01	0
Pesticides (Dieldrin)	0.03 µg/l	973	0	<0.002	<0.003	0
Pesticides (Diuron)	0.1 µg/l	913	0	<0.003	<0.01	0
Pesticides (Ethofumersate)	0.1 µg/l	959	0	<0.003	<0.01	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	979	0	<0.002	<0.01	0
Pesticides (Heptachlor)	0.03 µg/l	950	0	<0.002	<0.003	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	980	0	<0.001	<0.002	0
Pesticides (Ioxynil)	0.1 µg/l	904	0	<0.008	<0.01	0
Pesticides (Isoproturon)	0.1 µg/l	912	0	<0.003	<0.01	0
Pesticides (Linuron)	0.1 µg/l	913	0	<0.003	<0.01	0
Pesticides (MCPA)	0.1 µg/l	906	0	<0.007	0.01	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	911	0	<0.008	<0.01	0
Pesticides (Metazachlor)	0.1 µg/l	913	0	<0.006	<0.01	0
Pesticides (Methiocarb)	0.1 µg/l	893	0	<0.006	<0.01	0
Pesticides (Phenmedipham)	0.1 µg/l	904	0	<0.008	<0.01	0
Pesticides (Propetamphos)	0.1 µg/l	918	0	<0.003	<0.01	0
Pesticides (Propyzamide)	0.1 µg/l	955	0	<0.003	<0.01	0
Pesticides (Simazine)	0.1 µg/l	951	0	<0.002	<0.01	0

Pesticides (Trichlopyr)	0.1 µg/l	905	0	<0.006	<0.01	0
Pesticides (Triforine)	0.1 µg/l	913	0	<0.007	<0.01	0
Pesticides - Total Substances	0.5 µg/l	1383	0	0	0.039	0
<b>TOTAL</b>	-	<b>36274</b>	<b>3</b>	-	-	-

**Table UUT 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
Sulphate	250 mg SO <sub>4</sub> /l	876	0	2.877	136.23
Total Organic Carbon (TOC)	No abnormal change	904	0	0.26	2.928
<b>TOTAL</b>	-	<b>1780</b>	<b>0</b>	-	-

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

Number of zones = 261

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	10	0	<0.041	<0.08	0
Antimony	5 µg Sb/l	2077	0	<0.018	0.3	0
Arsenic	10 µg As/l	2078	1	0.08	2.788	1
Benzene	1 µg/l	10	0	<0.034	<0.083	0
Benzo (a) Pyrene	0.01 µg/l	2210	4	<0.0001	0.002	4
Boron	1 mg B/l	10	0	<0.002	0.015	0
Bromate	10 µg BrO <sub>3</sub> /l	2157	1	<0.47	6.108	1
Cadmium	5 µg Cd/l	2078	0	0.01	0.132	0
Chromium	50 µg Cr/l	2077	0	<0.06	0.812	0
Copper	2 mg Cu/l	2070	0	0.001	0.226	0
Cyanide	50 µg CN/l	10	0	<0.54	1.41	0
<i>E. coli</i>	0 number/100 ml	18407	7	0	0	7
Enterococci	0 number/100 ml	2049	3	0	0	3
Fluoride	1.5 mg F/l	9	0	<0.05	0.97	0
Lead	25 µg Pb/l	2083	8	<0.13	12.096	7
Mercury	1 µg Hg/l	10	0	<0.01	<0.032	0
Nickel	20 µg Ni/l	2070	9	0.247	11.916	9
Nitrate	50 mg NO <sub>3</sub> /l	7180	0	0.709	24.719	0
Nitrite	0.5 mg NO <sub>2</sub> /l	7180	0	<0.003	0.0098	0
Nitrate/Nitrite Formula	≤ 1	7180	0	0.015	0.494	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	2131	2	0	0.022	2
Selenium	10 µg Se/l	2084	0	0.07	1.04	0
Tetrachloroethene/Trichloroethene	10 µg/l	2100	0	0	0.39	0
Trihalomethanes (THMs)	100 µg/l	2104	0	1.687	55.68	0
Pesticides (2,4,5-T)	0.1 µg/l	9	0	<0.008	<0.01	0
Pesticides (2,4,-Db)	0.1 µg/l	9	0	<0.008	<0.01	0
Pesticides (2,4-D)	0.1 µg/l	9	0	<0.007	<0.01	0
Pesticides (Aldrin)	0.03 µg/l	10	0	<0.003	<0.003	0
Pesticides (Atrazine)	0.1 µg/l	10	0	<0.002	<0.01	0
Pesticides (Bromoxynil)	0.1 µg/l	9	0	<0.004	<0.01	0
Pesticides (Carbendazim)	0.1 µg/l	9	0	<0.006	<0.01	0
Pesticides (Carbofuran)	0.1 µg/l	9	0	<0.006	<0.01	0
Pesticides (Chlortoluron)	0.1 µg/l	9	0	<0.004	<0.01	0
Pesticides (Cyanazine)	0.1 µg/l	9	0	<0.003	<0.01	0
Pesticides (Diazinon)	0.1 µg/l	9	0	<0.004	<0.01	0

Pesticides (Dicamba)	0.1 µg/l	9	0	<0.008	<0.01	0
Pesticides (Dichlorprop)	0.1 µg/l	9	0	<0.006	<0.01	0
Pesticides (Dieldrin)	0.03 µg/l	10	0	<0.002	0.003	0
Pesticides (Diuron)	0.1 µg/l	9	0	<0.003	<0.01	0
Pesticides (Ethofumersate)	0.1 µg/l	10	0	<0.003	<0.01	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	10	0	<0.002	<0.01	0
Pesticides (Heptachlor)	0.03 µg/l	10	0	<0.002	<0.003	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	10	0	<0.001	<0.002	0
Pesticides (Ioxynil)	0.1 µg/l	9	0	<0.008	<0.01	0
Pesticides (Isoproturon)	0.1 µg/l	9	0	<0.003	<0.01	0
Pesticides (Linuron)	0.1 µg/l	9	0	<0.003	<0.01	0
Pesticides (MCPA)	0.1 µg/l	9	0	<0.007	<0.01	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	9	0	<0.008	<0.01	0
Pesticides (Metazachlor)	0.1 µg/l	9	0	<0.006	<0.01	0
Pesticides (Methiocarb)	0.1 µg/l	9	0	<0.006	<0.01	0
Pesticides (Phenmedipham)	0.1 µg/l	9	0	<0.008	<0.01	0
Pesticides (Propetamphos)	0.1 µg/l	10	0	<0.003	<0.01	0
Pesticides (Propyzamide)	0.1 µg/l	10	0	<0.003	<0.01	0
Pesticides (Simazine)	0.1 µg/l	10	0	<0.002	<0.01	0
Pesticides (Trichlopyr)	0.1 µg/l	9	0	<0.006	<0.01	0
Pesticides (Triforine)	0.1 µg/l	9	0	<0.007	<0.01	0
Pesticides - Total Substances	0.5 µg/l	11	0	0	0.01	0
<b>TOTAL</b>	-	<b>69683</b>	<b>35</b>	-	-	-

**Table UUT 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	7230	7	<5.2	63.821	7
Colour	20 mg/l Pt/Co scale	7240	0	<0.62	3	0
Hydrogen ion (pH)	6.5 - 10 pH value	7355	6	6.76	8.06	6
Iron	200 µg Fe/l	7237	43	<3	168	37
Manganese	50 µg Mn/l	7237	21	<0.35	21.162	19
Organoleptic Odour	Dilution No. 3 at 25°C	7184	1	0	0	1
Organoleptic Taste	Dilution No. 3 at 25°C	7184	0	0	0	0
Sodium	200 mg Na/l	7207	0	4.301	43.4	0
Tetrachloromethane	3 µg/l	2100	0	<0.008	0.18	0
Turbidity	4 NTU	7237	6	<0.04	0.85	6
<b>TOTAL</b>	-	<b>67211</b>	<b>84</b>	-	-	-

**Table UUT 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 <sub>4</sub> /l	7192	0	<0.003	0.041
Chloride	250 mg Cl/l	7170	0	6.15	53.3
<i>Clostridium perfringens</i>	0 number/100 ml	7157	9	0	0
Coliform Bacteria	0 number/100 ml	18396	54	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	7328	0	0	32
Colony Counts After 48 Hours At 37°C	No abnormal change	7328	0	0	13
Conductivity	2500 µS/cm	7215	0	59	599.52
Hydrogen ion (pH)	9.5 pH Value	7355	0	6.76	8.06
Residual Disinfectant - Free	No abnormal change	18439	0	0.02	1.01
Residual Disinfectant - Total	No abnormal change	18438	0	0.07	1.11
Sulphate	250 mg SO <sub>4</sub> /l	9	0	30.3	59.6
Total Organic Carbon (TOC)	No abnormal change	8	0	0.85	1.96
<b>TOTAL</b>	-	<b>106035</b>	<b>63</b>	-	-