

## **Data Summary Tables for Bristol Water (BRL)**

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

Number of treatment works = 17

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	157	0	<0.002	0.053	0
<b>TOTAL</b>	-	<b>157</b>	<b>0</b>	-	-	-

Table BRL 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	3263	0	0	0	0
Cryptosporidium	Oocyst concentration / 10 l	1069	0	<0.01	<0.01	0
<i>E. coli</i>	0 number/100 ml	3263	0	0	0	0
<b>TOTAL</b>	-	<b>7595</b>	<b>0</b>	-	-	-

Table BRL 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	3262	0	0	20
Colony Counts After 48 Hours At 37°C	No abnormal change	3262	0	0	52
Residual Disinfectant - Free	No abnormal change	3268	0	0.3	1.39
Residual Disinfectant - Total	No abnormal change	3268	0	0.41	1.63
Turbidity	1 NTU	3260	1	0.04	0.28
<b>TOTAL</b>	-	<b>16320</b>	<b>1</b>	-	-

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

Number of service reservoirs = 186

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	9074	7	0	0	0*
<i>E. coli</i>	0 number/100 ml	9074	2	0	0	2
<b>TOTAL</b>	-	<b>18148</b>	<b>9</b>	-	-	-

\* R060 Farncombe-1B-OT east, R175 Woods tower-1-OT breach(es) regulation 14 for an unjustified sampling shortfall

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R016 Brean Down-1-OT

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R023 Charfield-2A-OT West

**Table BRL 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	9074	0	>300
Colony Counts After 48 Hours At 37°C	No abnormal change	9074	0	40
Residual Disinfectant - Free	No abnormal change	9074	<0.05	0.63
Residual Disinfectant - Total	No abnormal change	9074	0.06	0.8
<b>TOTAL</b>	-	<b>36296</b>	-	-

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

Number of supply points = 17

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
1,2 Dichloroethane	3 µg/l	157	0	<0.08	<0.12	0
Benzene	1 µg/l	157	0	<0.06	<0.15	0
Boron	1 mg B/l	157	0	<0.013	0.189	0
Cyanide	50 µg CN/l	157	0	<0.2	1.113	0
Fluoride	1.5 mg F/l	157	0	<0.04	0.424	0
Mercury	1 µg Hg/l	158	0	<0.015	0.018	0
Tetrachloroethene/Trichloroethene	10 µg/l	157	0	0	0.317	0
Pesticides (2,4,-Db)	0.1 µg/l	199	0	<0.003	<0.003	0
Pesticides (2,4-D)	0.1 µg/l	199	0	<0.003	0.023	0
Pesticides (Aldrin)	0.03 µg/l	210	0	<0.002	<0.002	0
Pesticides (Asulam)	0.1 µg/l	101	0	<0.005	<0.005	0
Pesticides (Atrazine)	0.1 µg/l	209	0	<0.001	0.015	0
Pesticides (Benazolin)	0.1 µg/l	31	0	<0.002	<0.002	0
Pesticides (Bromoxynil)	0.1 µg/l	204	0	<0.001	0.003	0
Pesticides (Carbendazim)	0.1 µg/l	210	0	<0.002	<0.008	0
Pesticides (Chlorothalonil)	0.1 µg/l	101	0	<0.001	<0.001	0
Pesticides (Chlorpyrifos)	0.1 µg/l	33	0	<0.003	<0.006	0
Pesticides (Chlortoluron)	0.1 µg/l	210	0	<0.002	<0.008	0
Pesticides (Clopyralid)	0.1 µg/l	98	0	<0.005	0.01	0
Pesticides (Cyanazine)	0.1 µg/l	35	0	<0.002	<0.002	0
Pesticides (Cypermethrin)	0.1 µg/l	73	0	<0.04	<0.04	0
Pesticides (Dieldrin)	0.03 µg/l	209	0	<0.002	<0.002	0
Pesticides (Diuron)	0.1 µg/l	210	0	<0.003	<0.006	0
Pesticides (Fenpropimorph)	0.1 µg/l	209	0	<0.006	<0.006	0
Pesticides (Fluroxypyr)	0.1 µg/l	199	0	<0.003	<0.003	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	40	0	<0.002	<0.002	0
Pesticides (Glyphosate)	0.1 µg/l	210	0	<0.005	<0.008	0
Pesticides (Heptachlor)	0.03 µg/l	210	0	<0.002	<0.002	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	210	0	<0.002	<0.002	0
Pesticides (Ioxynil)	0.1 µg/l	70	0	<0.002	<0.002	0
Pesticides (Isoproturon)	0.1 µg/l	210	0	<0.003	<0.006	0
Pesticides (Linuron)	0.1 µg/l	210	0	<0.003	<0.013	0
Pesticides (MCPA)	0.1 µg/l	96	0	<0.002	0.004	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	204	0	<0.001	0.004	0
Pesticides (Pendimethalin)	0.1 µg/l	209	0	<0.003	<0.003	0
Pesticides (Simazine)	0.1 µg/l	209	0	<0.001	0.008	0

Pesticides (Tri-allate)	0.1 µg/l	35	0	<0.001	<0.001	0
Pesticides (Trifluralin)	0.1 µg/l	207	0	<0.002	<0.002	0
Pesticides - Total Substances	0.5 µg/l	200	0	0	0.035	0
<b>TOTAL</b>	-	<b>6160</b>	<b>0</b>	-	-	-

**Table BRL 7: Quality of water leaving bulk supply points - National Standards**

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Tetrachloromethane	3 µg/l	157	0	<0.02	<0.065	0
<b>TOTAL</b>	-	<b>157</b>	<b>0</b>	-	-	-

**Table BRL 8: 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
Chloride	250 mg Cl/l	157	0	12.758	91.264
<i>Clostridium perfringens</i>	0 number/100 ml	1201	0	0	0
Conductivity	2500 µS/cm	1199	0	189	824
Radioactivity - Gross Alpha	0.1 Bq/l	149	0	<0.02	0.092
Radioactivity - Gross Beta	1 Bq/l	149	0	0.025	0.235
Radioactivity - Tritium	100 Bq/l	143	0	<1.5	<4.312
Sulphate	250 mg SO <sub>4</sub> /l	157	0	<6.5	130.32
Total Organic Carbon (TOC)	No abnormal change	157	0	0.359	3.307
<b>TOTAL</b>	-	<b>3312</b>	<b>0</b>	-	-

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

Number of zones = 52

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	9	0	<0.08	<0.12	0
Antimony	5 µg Sb/l	390	0	<0.1	0.609	0
Arsenic	10 µg As/l	390	0	<0.1	6.127	0
Benzene	1 µg/l	9	0	<0.06	<0.15	0
Benzo (a) Pyrene	0.01 µg/l	390	0	<0.0005	0.0024	0
Boron	1 mg B/l	9	0	<0.023	0.053	0
Bromate	10 µg BrO <sub>3</sub> /l	390	0	<0.5	4.618	0
Cadmium	5 µg Cd/l	390	0	<0.1	0.755	0
Chromium	50 µg Cr/l	390	0	<0.5	2.627	0
Copper	2 mg Cu/l	390	0	0.001	0.242	0
Cyanide	50 µg CN/l	9	0	<0.2	0.6	0
<i>E. coli</i>	0 number/100 ml	2911	1	0	0	1
Enterococci	0 number/100 ml	390	0	0	0	0
Fluoride	1.5 mg F/l	9	0	<0.04	0.31	0
Lead	25 µg Pb/l	390	1	<0.1	12.115	1
Mercury	1 µg Hg/l	9	0	<0.015	<0.015	0
Nickel	20 µg Ni/l	389	0	<0.2	10.33	0
Nitrate	50 mg NO <sub>3</sub> /l	391	1	0.992	39.952	1
Nitrite	0.5 mg NO <sub>2</sub> /l	391	0	<0.003	0.0424	0
Nitrate/Nitrite Formula	≤ 1	391	1	0.021	0.8	1
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	390	0	0	0.015	0
Selenium	10 µg Se/l	390	0	0.2	1.7	0
Tetrachloroethene/Trichloroethene	10 µg/l	9	0	0	0.3	0
Trihalomethanes (THMs)	100 µg/l	390	0	3.047	81.988	0
Pesticides (Aldrin)	0.03 µg/l	9	0	<0.002	<0.002	0
Pesticides (Alpha-HCH)	0.1 µg/l	9	0	<0.001	<0.001	0
Pesticides (Atrazine)	0.1 µg/l	9	0	<0.001	0.008	0
Pesticides (Chlortoluron)	0.1 µg/l	9	0	<0.004	<0.004	0
Pesticides (Dicamba)	0.1 µg/l	9	0	<0.001	<0.001	0
Pesticides (Dieldrin)	0.03 µg/l	9	0	<0.002	0.003	0
Pesticides (Diuron)	0.1 µg/l	9	0	<0.004	<0.004	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	9	0	<0.002	<0.002	0
Pesticides (Heptachlor)	0.03 µg/l	9	0	<0.002	<0.002	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	9	0	<0.002	<0.002	0
Pesticides (Isoproturon)	0.1 µg/l	9	0	<0.003	<0.004	0

Pesticides (Linuron)	0.1 µg/l	9	0	<0.007	<0.007	0
Pesticides (MCPA)	0.1 µg/l	9	0	<0.002	<0.002	0
Pesticides (MCP (Mecoprop))	0.1 µg/l	9	0	<0.001	<0.02	0
Pesticides (Prometryn)	0.1 µg/l	9	0	<0.002	<0.002	0
Pesticides (Propazine)	0.1 µg/l	9	0	<0.001	<0.001	0
Pesticides (Simazine)	0.1 µg/l	9	0	<0.001	0.006	0
Pesticides (Tri-allate)	0.1 µg/l	9	0	<0.001	<0.001	0
Pesticides - Total Substances	0.5 µg/l	9	0	0	0.012	0
<b>TOTAL</b>	-	<b>9387</b>	<b>4</b>	-	-	-

**Table BRL 10: 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	1185	0	<3	70.98	0
Colour	20 mg/l Pt/Co scale	1184	0	<0.2	1.9	0
Hydrogen ion (pH)	6.5 - 10 pH value	1182	0	7.18	7.892	0
Iron	200 µg Fe/l	1183	6	<8	159.16	3
Manganese	50 µg Mn/l	1182	2	<0.2864	14.389	2
Organoleptic Odour	Dilution No. 3 at 25°C	661	0	0	0	0
Organoleptic Taste	Dilution No. 3 at 25°C	661	0	0	0	0
Sodium	200 mg Na/l	397	0	7.098	85.072	0
Tetrachloromethane	3 µg/l	9	0	<0.02	<0.04	0
Turbidity	4 NTU	1186	2	<0.05	0.82	2
<b>TOTAL</b>	-	<b>8830</b>	<b>10</b>	-	-	-

**Table BRL 11: 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	1188	0	<0.023	0.045
Chloride	250 mg Cl/l	9	0	15.7	22.8
<i>Clostridium perfringens</i>	0 number/100 ml	10	0	0	0
Coliform Bacteria	0 number/100 ml	2911	5	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	2911	0	0	137
Colony Counts After 48 Hours At 37°C	No abnormal change	2911	0	0	91

Conductivity	2500 µS/cm	11	0	141	619
Hydrogen ion (pH)	9.5 pH Value	1182	0	7.18	7.892
Radioactivity - Gross Alpha	0.1 Bq/l	9	0	<0.02	<0.06
Radioactivity - Gross Beta	1 Bq/l	9	0	0.05	0.09
Radioactivity - Tritium	100 Bq/l	9	0	<1.6	<3.7
Residual Disinfectant - Free	No abnormal change	2912	0	<0.05	0.679
Residual Disinfectant - Total	No abnormal change	2912	0	0.08	0.89
Sulphate	250 mg SO <sub>4</sub> /l	9	0	12	45
Total Organic Carbon (TOC)	No abnormal change	9	0	0.81	1.47
<b>TOTAL</b>	-	<b>17002</b>	<b>5</b>	-	-