

## **Data summary tables for Bristol Water Plc (BRL)**

These tables contain a summary of results of monitoring undertaken by the water company in 2017 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 2017*.

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

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Site Summary Data for Bristol Water Plc

Report Date Range: For the whole year 2017

**Table BRL 1: Quality of water leaving 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	138	0	< 0.0011	0.01922	0
<b>Totals:</b>			<b>138</b>	<b>0</b>			

**Table BRL 2: Quality of water leaving 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	3,593	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	3,593	0	0	0	0
<b>Totals:</b>			<b>7,186</b>	<b>0</b>			

**Table BRL 3: Quality of water leaving 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	3,593	-n/a	0	4
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	3,593	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	3,594	-n/a	0.32	1.47
Residual Disinfectant - Total	C010	No abnormal change	3,594	-n/a	0.38	1.54
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(3,594)	-n/a	0	0.22
Turbidity - Indicator	A002A	1 nephelometric turbidity units	3,592	0	0.07	0.43
<b>Totals:</b>			<b>17,966</b>	<b>0</b>		

\*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

**Table BRL 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	7,964	1	0	0	1
Total Coliforms (Confirmed)	C001	0 number/100 ml	7,964	2	0	0	0
<b>Totals:</b>			<b>15,928</b>	<b>3</b>			

**Table BRL 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	7,964	-n/a	0	22
Colony Counts After 48 Hours At 37øc (Colony Counts)	C013	No abnormal change	7,964	-n/a	0	14
Residual Disinfectant - Free	C009	No abnormal change	7,965	-n/a	0.05	0.79
Residual Disinfectant - Total	C010	No abnormal change	7,965	-n/a	0.13	0.89
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(7,965)</i>	<i>-n/a</i>	<i>0</i>	<i>0.22</i>
<b>Totals:</b>			<b>31,858</b>	<b>0</b>		

\*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

**Table BRL 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
1 2-Dichloroethane (Total)	F001	3 µg/l	138	0	< 0.07	< 0.1	0
Benzene (Total)	F002	1 µg/l	139	0	< 0.02	< 0.07	0
Boron	D005A	1 mg B/l	141	0	0.0127	0.15874	0
Cyanide (Total)	B003	50 µg CN/l	137	0	< 0.7	2.962	0
Fluoride (Total)	A027	1.5 mg F/l	142	0	< 0.0286	0.4257	0
Mercury (Total)	B005	1 µg Hg/l	137	0	< 0.02	< 0.05	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	155	0	0	0.09228	0
Pesticides 2 4-D	P020	0.1 µg/l	77	0	< 0.003	0.009	0
Pesticides Asulam	P133	0.1 µg/l	94	0	< 0.002	< 0.015	0
Pesticides Atrazine	P004	0.1 µg/l	95	0	< 0.001	0.007	0
Pesticides Boscalid	P231	0.1 µg/l	149	0	< 0.003	< 0.005	0
Pesticides Bromoxynil	P008	0.1 µg/l	9	0	< 0.003	< 0.006	0
Pesticides Carbenfimidazole (Total)	P150	0.1 µg/l	77	0	< 0.001	< 0.001	0
Pesticides Carbetamide	P010	0.1 µg/l	95	0	< 0.001	0.002	0
Pesticides Chloromequat	P163	0.1 µg/l	158	0	< 0.003	< 0.003	0
Pesticides Chlorothalonil	P015	0.1 µg/l	149	0	< 0.001	< 0.009	0
Pesticides Chlortoluron	P014	0.1 µg/l	69	0	< 0.002	< 0.003	0
Pesticides Clopyralid	P018	0.1 µg/l	158	0	< 0.003	0.02369	0
Pesticides Cypermethrin	P094	0.1 µg/l	77	0	< 0.001	< 0.01	0
Pesticides Cyproconazole	P207	0.1 µg/l	150	0	< 0.001	< 0.002	0
Pesticides Dicamba	P025	0.1 µg/l	34	0	< 0.003	< 0.006	0
Pesticides Diflufenican	P157	0.1 µg/l	151	0	< 0.002	< 0.002	0
Pesticides Diuron	P032	0.1 µg/l	85	0	< 0.002	< 0.003	0
Pesticides Epoxyconazole	P217	0.1 µg/l	151	0	< 0.001	< 0.004	0
Pesticides Flufenacet	P230	0.1 µg/l	150	0	< 0.002	< 0.003	0
Pesticides Fluroxypyr	P040	0.1 µg/l	150	0	< 0.003	< 0.005	0
Pesticides Flusilazole	P159	0.1 µg/l	88	0	< 0.001	< 0.002	0
Pesticides Flutriafol	P039	0.1 µg/l	35	0	< 0.001	< 0.002	0
Pesticides Fluxapyroxad	P274	0.1 µg/l	148	0	< 0.002	< 0.002	0
Pesticides Glyphosate	P042	0.1 µg/l	150	0	< 0.003	< 0.03338	0
Pesticides Isoproturon	P048	0.1 µg/l	69	0	< 0.002	< 0.002	0
Pesticides Linuron	P051	0.1 µg/l	43	0	< 0.002	< 0.007	0
Pesticides MCPA 4-chloro-o-tolylxyacetic acid	P054	0.1 µg/l	150	0	< 0.003	< 0.004	0
Pesticides MCPB	P055	0.1 µg/l	86	0	< 0.003	< 0.006	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	157	0	< 0.002	0.00442	0
Pesticides Metaldehyde	P226	0.1 µg/l	146	0	< 0.003	0.03053	0

**Table BRL 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
Pesticides Metazachlor	P203	0.1 µg/l	95	0	< 0.002	< 0.002	0
Pesticides Methiocarb	P056	0.1 µg/l	50	0	< 0.002	< 0.003	0
Pesticides Pendimethalin	P118	0.1 µg/l	150	0	< 0.002	< 0.003	0
Pesticides Propiconazole	P068	0.1 µg/l	107	0	< 0.002	< 0.003	0
Pesticides Propyzamide	P071	0.1 µg/l	96	0	< 0.002	0.0103	0
Pesticides Prosulfocarb	P243	0.1 µg/l	158	0	< 0.001	< 0.002	0
Pesticides Prothioconazole	P242	0.1 µg/l	138	0	< 0.0057	< 0.030893	0
Pesticides Quinmerac	P244	0.1 µg/l	96	0	< 0.001	0.007	0
Pesticides Simazine	P073	0.1 µg/l	131	0	< 0.001	< 0.003	0
Pesticides Spiroxamine	P239	0.1 µg/l	27	0	< 0.001	0.001	0
Pesticides Tebuconazole	P177	0.1 µg/l	150	0	< 0.00151	0.00249	0
Pesticides Triclopyr	P131	0.1 µg/l	123	0	< 0.003	0.01052	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	138	0	0.1	0.73	0
<b>Totals:</b>			<b>5,598</b>	<b>0</b>			

**Table BRL 7: Quality of water leaving bulk supply points - 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 supply points with failures
Tetrachloromethane (Total)	D008	3 µg/l	139	0	< 0.02	< 0.14	0
<b>Totals:</b>			<b>139</b>	<b>0</b>			

**Table BRL 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)
Chloride	D002A	250 mg Cl/l	142	0	11.658	77.731
Clostridium Perfringens	C004A	0 number/100 ml	1,393	0	0	0
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	1,393	0	251	737.12
Gross Alpha	F004	0.1 Bq/l	25	0	0.031	0.096
Gross Beta	F005	1 Bq/l	25	0	0.055	0.107
Sulphate	A007	250 mg SO4/l	141	0	7.6392	106.32
Total Organic Carbon	A017	No abnormal change	141	-n/a	< 0.1478	2.5
<b>Totals:</b>			<b>3,260</b>	<b>0</b>		

**Table BRL 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
Antimony	B008A	5 µg Sb/l	225	0	< 0.033	0.53222	0
Arsenic (Total)	B001A	10 µg As/l	225	0	< 0.18	4.6914	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	221	0	< 0.00022	< 0.0011	0
Bromate	F003	10 µg BrO3/l	226	0	< 0.1	5.065	0
Cadmium (Total)	B002	5 µg Cd/l	225	0	< 0.006	0.6671	0
Chromium (Total)	B004	50 µg Cr/l	225	0	< 0.06	0.68	0
Copper (Total)	A024A	2 mg Cu/l	225	0	< 0.0006	0.38634	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	3,025	1	0	0	1
Enterococci (Confirmed)	C003	0 number/100 ml	223	0	0	0	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	217	1	< 0.03	7.883	1
Nickel (Total)	B006A	20 µg Ni/l	225	4	0.3452	67.632	4
Nitrate (Total)	A012	50 mg NO3/l	225	0	0.9432	31.4196	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	225	0	0.009	0.009	0
Nitrite/Nitrate formula	A013C	1 mg NO2/l	225	0	0.02182	0.63114	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	218	0	0	0.00381	0
Selenium (Total)	B009	10 µg Se/l	225	0	0.4152	2.7548	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	225	0	4.3412	54.7542	0
<b>Totals:</b>			<b>6,605</b>	<b>6</b>			

**Table BRL 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	1,041	0	< 0.9	48.864	0
Colour	A001	20 mg/l Pt/Co scale	1,043	0	< 0.5	3.2	0
Iron (Total)	A022	200 µg Fe/l	1,040	0	< 0.7	84.409	0
Manganese (Total)	A023	50 µg Mn/l	1,039	0	< 0.14	7.012	0
Odour	A003	0 Dilution number	1,089	2	0	0	2
Sodium (Total)	A009	200 mg Na/l	225	0	7.0992	64.996	0
Taste (Taste Quant)	A004	0 Dilution number	1,049	1	0	0	1
Turbidity	A002	4 nephelometric turbidity units	1,039	0	0.07	0.468	0
<b>Totals:</b>			<b>7,565</b>	<b>3</b>			

**Table BRL 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 NH4/l	1,038	0	< 0.004	0.04261
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	3,025	3	0	0
Colony Counts After 3 Days At 22øc (Colony Counts)	C007	No abnormal change	3,025	-n/a	0	35
Colony Counts After 48 Hours At 37øc (Colony Counts)	C013	No abnormal change	3,025	-n/a	0	42
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	16	0	136	606
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	1,043	0	7.09	7.83
Residual Disinfectant - Free	C009	No abnormal change	3,030	-n/a	0.05	0.86
Residual Disinfectant - Total	C010	No abnormal change	3,030	-n/a	0.14	0.96
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(3,030)</i>	<i>-n/a</i>	<i>0.01</i>	<i>0.25</i>
<b>Totals:</b>			<b>17,232</b>	<b>3</b>		

\*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.