

## **Data summary tables for Dwr Cymru Welsh Water (DWR)**

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 Dŵr Cymru Welsh Water

Report Date Range: For the whole year 2017

**Table DWR 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	190	0	< 0.013136	< 0.0140227	0
<b>Totals:</b>			<b>190</b>	<b>0</b>			

**Table DWR 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	4,347	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	4,347	1	0	0	1
<b>Totals:</b>			<b>8,694</b>	<b>1</b>			

**Table DWR 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 22øc (Colony Counts)	C007	No abnormal change	4,335	-n/a	0	3
Colony Counts After 48 Hours At 37øc (Colony Counts)	C013	No abnormal change	4,341	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	4,366	-n/a	0.38	1.41
Residual Disinfectant - Total	C010	No abnormal change	4,364	-n/a	0.44	1.48
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	-(n/a)	-(n/a)	(4,364)	-n/a	0	0.21
Turbidity - Indicator	A002A	1 nephelometric turbidity units	7,570	2	< 0.05	0.24
<b>Totals:</b>			<b>24,976</b>	<b>2</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 DWR 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	17,614	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	17,614	2	0	0	0
<b>Totals:</b>			<b>35,228</b>	<b>2</b>			

**Table DWR 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 22°C (Colony Counts)	C007	No abnormal change	17,559	-n/a	0	14
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	17,599	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	17,640	-n/a	0.15	0.88
Residual Disinfectant - Total	C010	No abnormal change	17,638	-n/a	0.2439	0.96
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(17,638)</i>	<i>-n/a</i>	<i>0</i>	<i>0.19</i>
<b>Totals:</b>			<b>70,436</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 DWR 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	206	0	< 0.051	< 0.054	0
Benzene (Total)	F002	1 µg/l	207	0	< 0.019	< 0.029	0
Boron	D005A	1 mg B/l	207	0	< 0.011	0.02284	0
Bromate	F003	10 µg BrO3/l	51	0	< 0.1	3.8	0
Cyanide (Total)	B003	50 µg CN/l	205	0	< 0.27	2.294	0
Fluoride (Total)	A027	1.5 mg F/l	207	0	< 0.031	0.0988	0
Mercury (Total)	B005	1 µg Hg/l	207	0	< 0.02	0.0492	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	224	0	0	0.037	0
Pesticides 2 4-D	P020	0.1 µg/l	224	0	< 0.0042	0.009425	0
Pesticides 2 4-DB	P082	0.1 µg/l	9	0	< 0.0034	< 0.0034	0
Pesticides Aldrin	P002	0.03 µg/l	223	0	< 0.0039	< 0.0039	0
Pesticides Asulam	P133	0.1 µg/l	224	0	< 0.0026	< 0.0026	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	9	0	< 0.0033	< 0.0033	0
Pesticides Carbetamide	P010	0.1 µg/l	8	0	< 0.0019	< 0.006	0
Pesticides Clopyralid	P018	0.1 µg/l	16	0	< 0.0054	0.021	0
Pesticides Diazinon	P024	0.1 µg/l	52	0	< 0.0018	< 0.006	0
Pesticides Dicamba	P025	0.1 µg/l	9	0	< 0.0066	< 0.0066	0
Pesticides Dieldrin	P028	0.03 µg/l	223	0	< 0.0039	< 0.0039	0
Pesticides Glyphosate	P042	0.1 µg/l	224	0	< 0.002	0.0024	0
Pesticides Heptachlor	P043	0.03 µg/l	223	0	< 0.0051	< 0.0051	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	223	0	< 0.0076	< 0.0076	0
Pesticides Linuron	P051	0.1 µg/l	8	0	< 0.002	< 0.005	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	223	0	< 0.004	0.02436	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	224	0	< 0.0026	< 0.00275	0
Pesticides Metaldehyde	P226	0.1 µg/l	16	0	< 0.0061	0.026	0
Pesticides Propetamphos	P069	0.1 µg/l	1	0	< 0.0059	< 0.0059	0
Pesticides Propyzamide	P071	0.1 µg/l	8	0	< 0.0018	< 0.004	0
Pesticides Quinmerac	P244	0.1 µg/l	8	0	< 0.0026	0.0083	0
Pesticides Triclopyr	P131	0.1 µg/l	24	0	< 0.005	< 0.005	0
Radon	F031	100 Bq/l	16	0	7.2	37.7	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	207	0	0	0.5024	0
<b>Totals:</b>			<b>3,916</b>	<b>0</b>			

**Table DWR 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	206	0	< 0.032	0.14419	0
<b>Totals:</b>			<b>206</b>	<b>0</b>			

**Table DWR 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	206	0	3.535	25.93
Clostridium Perfringens	C004A	0 number/100 ml	2,634	0	0	0
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	788	0	79.78	550
Sulphate	A007	250 mg SO4/l	206	0	< 2.7	48.72
Total Organic Carbon	A017	No abnormal change	206	-n/a	0.2	1.6
Tritium	F006	100 Bq/l	4	0	< 5.6	< 5.6
<b>Totals:</b>			<b>4,044</b>	<b>0</b>		

Table DWR 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
1 2-Dichloroethane (Total)	F001	3 µg/l	416	0	< 0.051	< 0.054	0
Antimony	B008A	5 µg Sb/l	615	0	< 0.01	0.12	0
Arsenic (Total)	B001A	10 µg As/l	615	0	< 0.06	0.5484	0
Benzene (Total)	F002	1 µg/l	410	0	< 0.019	< 0.029	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	617	0	< 0.00077	< 0.0031	0
Boron	D005A	1 mg B/l	413	0	< 0.011	0.01586	0
Bromate	F003	10 µg BrO3/l	563	0	< 0.1	2.4	0
Cadmium (Total)	B002	5 µg Cd/l	616	0	< 0.01	0.0483	0
Chromium (Total)	B004	50 µg Cr/l	615	0	< 0.05	0.402	0
Copper (Total)	A024A	2 mg Cu/l	616	0	< 0.0011	0.2983	0
Cyanide (Total)	B003	50 µg CN/l	413	0	< 0.27	2.258	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	8,196	1	0	0	1
Enterococci (Confirmed)	C003	0 number/100 ml	616	0	0	0	0
Fluoride (Total)	A027	1.5 mg F/l	413	0	< 0.031	0.09672	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	615	1	< 0.04	6.152	1
Mercury (Total)	B005	1 µg Hg/l	413	0	< 0.02	0.04	0
Nickel (Total)	B006A	20 µg Ni/l	614	2	< 0.13	6.695	2
Nitrate (Total)	A012	50 mg NO3/l	626	0	< 2.213	< 16.3762	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	625	0	< 0.013136	< 0.013136	0
Nitrite/Nitrate formula	A013C	1 mg NO2/l	613	0	< 0.049	< 0.3386	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	523	0	0	0.03728	0
Pesticides 2 4-D	P020	0.1 µg/l	522	0	< 0.0042	0.01431	0
Pesticides Aldrin	P002	0.03 µg/l	521	0	< 0.0039	< 0.0039	0
Pesticides Asulam	P133	0.1 µg/l	522	0	< 0.0026	< 0.0026	0
Pesticides Chlortoluron	P014	0.1 µg/l	8	0	< 0.0021	< 0.004	0
Pesticides Clopyralid	P018	0.1 µg/l	40	0	< 0.0054	0.068	0
Pesticides Cyfluthrin	P093	0.1 µg/l	17	0	< 0.0092	< 0.0092	0
Pesticides Diazinon	P024	0.1 µg/l	8	0	< 0.0018	< 0.006	0
Pesticides Dicamba	P025	0.1 µg/l	16	0	< 0.0066	0.017	0
Pesticides Dieldrin	P028	0.03 µg/l	521	0	< 0.0039	< 0.0039	0
Pesticides Ethofumersate	P221	0.1 µg/l	8	0	< 0.0028	< 0.006	0
Pesticides Glyphosate	P042	0.1 µg/l	522	0	< 0.002	0.003262	0
Pesticides Heptachlor	P043	0.03 µg/l	521	0	< 0.0051	< 0.0051	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	521	0	< 0.0076	< 0.0076	0
Pesticides Linuron	P051	0.1 µg/l	85	0	< 0.002	< 0.005	0

**Table DWR 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
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	523	0	< 0.004	0.01776	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	522	0	< 0.0026	0.004878	0
Pesticides Metaldehyde	P226	0.1 µg/l	105	0	< 0.0061	0.01588	0
Pesticides Quinmerac	P244	0.1 µg/l	8	0	< 0.0026	0.0073	0
Pesticides Triclopyr	P131	0.1 µg/l	8	0	< 0.005	< 0.005	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	619	0	0	0	0
Selenium (Total)	B009	10 µg Se/l	615	0	< 0.1	0.3728	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	416	0	0	0.06	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	617	0	3.18	72.82	0
<b>Totals:</b>			<b>26,428</b>	<b>4</b>			

**Table DWR 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	2,025	1	1.9	56	1
Colour	A001	20 mg/l Pt/Co scale	1,618	0	0.6614	3.4	0
Iron (Total)	A022	200 µg Fe/l	2,744	14	2.3	165.5	12
Manganese (Total)	A023	50 µg Mn/l	2,002	4	< 0.21	16	4
Odour	A003	0 Dilution number	2,187	7	0	0	5
Sodium (Total)	A009	200 mg Na/l	616	0	3.1	44.83	0
Taste (Taste Quant)	A004	0 Dilution number	1,990	2	0	0	2
Tetrachloromethane (Total)	D008	3 µg/l	417	0	< 0.032	0.05564	0
Turbidity	A002	4 nephelometric turbidity units	1,711	0	< 0.05	0.3776	0
<b>Totals:</b>			<b>15,310</b>	<b>28</b>			

**Table DWR 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	1,728	0	< 0.003	0.019
Chloride	D002A	250 mg Cl/l	413	0	< 3.1	54.72
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	8,181	9	0	0
Colony Counts After 3 Days At 22øc (Colony Counts)	C007	No abnormal change	1,650	-n/a	0	16
Colony Counts After 48 Hours At 37øc (Colony Counts)	C013	No abnormal change	1,651	-n/a	0	11
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	1,218	0	62	398.1
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	2,436	0	7.2	8.2
Residual Disinfectant - Free	C009	No abnormal change	8,251	-n/a	< 0.04	0.87
Residual Disinfectant - Total	C010	No abnormal change	8,250	-n/a	0.1	0.94
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(8,250)</i>	<i>-n/a</i>	<i>0</i>	<i>0.21</i>
Sulphate	A007	250 mg SO4/l	413	0	< 2.7	76.58
Total Organic Carbon	A017	No abnormal change	413	-n/a	0.3514	2.586
<b>Totals:</b>			<b>34,604</b>	<b>9</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'.