

## **Data summary tables for Affinity Water (AFW)**

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 Affinity Water Ltd

Report Date Range: For the whole year 2017

Table AFW 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	1,132	0	< 0.008	0.00967	0
<b>Totals:</b>			<b>1,132</b>	<b>0</b>			

Table AFW 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	6,665	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	6,664	2	0	0	2
<b>Totals:</b>			<b>13,329</b>	<b>2</b>			

Table AFW 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	11,566	-n/a	0	5
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	4	-n/a	0	0
Residual Disinfectant - Total	C010	No abnormal change	6,700	-n/a	0.13	1.07
Turbidity - Indicator	A002A	1 nephelometric turbidity units	14,238	2	< 0.1	0.41
<b>Totals:</b>			<b>32,507</b>	<b>2</b>		

**Table AFW 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	7,852	1	0	0	1
Total Coliforms (Confirmed)	C001	0 number/100 ml	7,852	11	0	0	2
<b>Totals:</b>			<b>15,704</b>	<b>12</b>			

**Table AFW 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	7,852	-n/a	0	114
Colony Counts After 48 Hours At 37øc (Colony Counts)	C013	No abnormal change	1,347	-n/a	0	21
Residual Disinfectant - Total	C010	No abnormal change	7,852	-n/a	0.05	0.69
<b>Totals:</b>			<b>17,051</b>	<b>0</b>		

Table AFW 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	646	0	< 0.04	< 0.04	0
Antimony	B008A	5 µg Sb/l	662	0	< 0.2	0.51906	0
Arsenic (Total)	B001A	10 µg As/l	662	0	< 1	3.2048	0
Benzene (Total)	F002	1 µg/l	635	0	< 0.02	0.02	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	653	1	< 0.0006	0.000792	1
Boron	D005A	1 mg B/l	671	0	< 0.1	0.1328	0
Bromate	F003	10 µg BrO3/l	662	0	< 0.5	3.074	0
Cadmium (Total)	B002	5 µg Cd/l	662	0	< 0.2	< 0.2	0
Chromium (Total)	B004	50 µg Cr/l	662	0	< 0.5	2.6707	0
Copper (Total)	A024A	2 mg Cu/l	661	0	< 0.01	0.57418	0
Cyanide (Total)	B003	50 µg CN/l	660	0	< 1	2.517	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	9,519	2	0	0	2
Enterococci (Confirmed)	C003	0 number/100 ml	662	0	0	0	0
Fluoride (Total)	A027	1.5 mg F/l	661	0	0.06662	0.68314	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	663	4	< 1	7.3044	4
Mercury (Total)	B005	1 µg Hg/l	661	0	< 0.1	< 0.1	0
Nickel (Total)	B006A	20 µg Ni/l	661	1	< 2	5.9242	1
Nitrate (Total)	A012	50 mg NO3/l	996	0	< 2	44.606	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	997	0	< 0.008	0.1402	0
Nitrite/Nitrate formula	A013C	1 mg NO2/l	968	0	0	< 0.89324	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	662	0	0	0.15133	0
Pesticides 2 4-D	P020	0.1 µg/l	269	0	< 0.007	0.0089	0
Pesticides Atrazine	P004	0.1 µg/l	648	0	< 0.005	0.02751	0
Pesticides Bentazone	P006	0.1 µg/l	8	0	< 0.004	< 0.004	0
Pesticides Carbetamide	P010	0.1 µg/l	647	0	< 0.009	0.01052	0
Pesticides Clopyralid	P018	0.1 µg/l	661	0	< 0.012	0.04152	0
Pesticides Desethylatrazine	P182	0.1 µg/l	647	0	< 0.006	0.03752	0
Pesticides Diuron	P032	0.1 µg/l	386	0	< 0.01	< 0.01	0
Pesticides Glyphosate	P042	0.1 µg/l	269	0	< 0.003	0.0103	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	661	0	< 0.005	0.0147	0
Pesticides Metaldehyde	P226	0.1 µg/l	262	5	< 0.009	0.10437	2
Pesticides Metazachlor	P203	0.1 µg/l	262	0	< 0.005	0.007	0
Pesticides Propyzamide	P071	0.1 µg/l	262	3	< 0.008	0.11555	3
Pesticides Simazine	P073	0.1 µg/l	648	0	< 0.007	0.017	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	661	0	0	0.001838	0
Selenium (Total)	B009	10 µg Se/l	661	0	< 1	2.656	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	643	0	0	2.598	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	633	0	0.617	50.5414	0
<b>Totals:</b>			<b>31,914</b>	<b>16</b>			

**Table AFW 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	2,190	0	< 5	61.79	0
Colour	A001	20 mg/l Pt/Co scale	1,801	0	< 1	1.898	0
Iron (Total)	A022	200 µg Fe/l	2,365	1	< 15	39.338	1
Manganese (Total)	A023	50 µg Mn/l	2,365	0	< 1	2.5102	0
Odour	A003	0 Dilution number	1,987	13	0	0	11
Sodium (Total)	A009	200 mg Na/l	662	0	8.0126	63.288	0
Taste (Taste Quant)	A004	0 Dilution number	1,983	2	0	0	2
Tetrachloromethane (Total)	D008	3 µg/l	643	0	< 0.06	0.098	0
Turbidity	A002	4 nephelometric turbidity units	3,520	0	< 0.1	0.42	0
<b>Totals:</b>			<b>17,516</b>	<b>16</b>			

**Table AFW 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 NH <sub>4</sub> /l	1,945	0	< 0.04	0.1354
Chloride	D002A	250 mg Cl/l	662	0	16	90
Clostridium Perfringens (Confirmed)	C004A	0 number/100 ml	1,551	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	9,519	20	0	0
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	3,342	-n/a	0	214
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	3,472	0	368.19	795
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	3,474	0	6.9	7.8
Residual Disinfectant - Total	C010	No abnormal change	9,520	-n/a	0.06	0.91
Sulphate	A007	250 mg SO <sub>4</sub> /l	662	0	8	125
Total Organic Carbon	A017	No abnormal change	656	-n/a	0.3	4.043
<b>Totals:</b>			<b>34,803</b>	<b>20</b>		