

## **Data summary tables for Independent Water Networks Limited (IWN)**

These tables contain a summary of results of monitoring undertaken by the water company in 2016 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 2016*.

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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Drinking Water Inspectorate  
Area 7e  
9 Millbank  
c/o Nobel House  
17 Smith Square  
London  
SW1P 3JR

Enquiries: 0300 068 6400

Site Summary Data for Independent Water Networks (Eastern)

Report Date Range: For the whole year 2016

**Table IWN 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	F001	3 µg/l	34	0	< 0.07	< 0.7	0
Antimony	B008A	5 µg Sb/l	33	0	< 0.033	0.454	0
Arsenic	B001A	10 µg As/l	33	0	0.31	1.46	0
Benzene	F002	1 µg/l	34	0	< 0.02	< 0.07	0
Benzo (a) Pyrene	D007	0.01 µg/l	33	0	< 0.00022	< 0.00044	0
Boron	D005A	1 mg B/l	33	0	0.0166	0.104	0
Bromate	F003	10 µg BrO3/l	33	0	< 0.1	1.5	0
Cadmium	B002	5 µg Cd/l	33	0	< 0.006	0.033	0
Chromium	B004	50 µg Cr/l	33	0	0.25	1.87	0
Copper	A024A	2 mg Cu/l	33	0	0.0019	0.439	0
Cyanide	B003	50 µg CN/l	33	0	< 0.07	1	0
E coli	C002	0 number/100 ml	97	0	0	0	0
Enterococci	C003	0 number/100 ml	33	0	0	0	0
Fluoride	A027	1.5 mg F/l	33	0	0.06	0.26	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	33	0	< 0.03	0.82	0
Mercury	B005	1 µg Hg/l	33	0	< 0.02	< 0.05	0
Nickel	B006A	20 µg Ni/l	33	0	0.49	6.56	0
Nitrate	A012	50 mg NO3/l	33	0	7.64	43	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	33	0	< 0.37	0.86	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	33	0	< 0.0002	0.289	0
Pesticides - Total Substances	B010	0.5 µg/l	24	0	0.018	0.094	0
Pesticides Metaldehyde	P226	0.1 µg/l	24	0	0.018	0.094	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	33	0	0	0.08	0
Selenium	B009	10 µg Se/l	33	0	0.37	1.91	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	34	0	0	0.82	0
Total Trihalomethanes	D011	100 µg/l	34	0	6.85	57.57	0
<b>Totals:</b>			<b>908</b>	<b>0</b>			

**Table IWN 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	A021	200 µg Al/l	33	0	< 0.9	16.4	0
Colour	A001	20 mg/l Pt/Co scale	34	0	< 0.5	2.8	0
Iron	A022	200 µg Fe/l	33	0	< 3.6	25.8	0
Manganese	A023	50 µg Mn/l	33	0	< 2.6	< 2.6	0
Organoleptic Odour	A003	0 Dilution number	34	0	0	0	0
Organoleptic Taste	A004	0 Dilution number	34	0	0	0	0
Sodium	A009	200 mg Na/l	33	0	11	48.9	0
Tetrachloromethane	D008	3 µg/l	34	0	< 0.02	< 0.14	0
Turbidity	A002	4 nephelometric turbidity units	34	0	< 0.03	0.25	0
<b>Totals:</b>			<b>302</b>	<b>0</b>			

**Table IWN 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 (Indicator)	A014	0.5 mg NH <sub>4</sub> /l	34	0	< 0.004	0.2
Chloride (Indicator)	D002A	250 mg Cl/l	34	0	21.9	77.9
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	34	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	97	0	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	97	-n/a	0	546
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	97	-n/a	0	767
Conductivity (Indicator)	D001	2500 µS/cm	34	0	247	755
Gross Alpha Activity	F004	0.1 Bq/l	10	0	< 0.016	< 0.034
Gross Beta Activity	F005	1 Bq/l	10	0	0.042	0.307
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	34	0	6.91	7.88
Residual Disinfectant - Free	C009	No abnormal change	97	-n/a	0.01	0.68
Residual Disinfectant - Total	C010	No abnormal change	97	-n/a	0.22	0.88
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(97)	-n/a	0.04	0.66
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	34	0	< 0.25	120
Total organic carbon (indicator)	A017	No abnormal change	34	-n/a	0.4	3.6
Tritium (Indicator)	F006	100 Bq/l	10	0	< 5	5.4
<b>Totals:</b>			<b>753</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'.