

## **Data Summary Tables for Anglian Water Services (ANG)**

These tables contain a summary of results of monitoring undertaken by the water company in 2011 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 2011'.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.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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## Viewing Site Summary Data for Anglian Water Services Ltd

Report Date Range: For the whole year 2011

**Table ANG 1: Quality of water leaving service 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 (Works)	A013B	0.1 mg NO <sub>2</sub> /l	2,205	0	< 0.005	0.009	0
<b>Totals:</b>			<b>2,205</b>	<b>0</b>			

**Table ANG 2: Quality of water leaving service 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
Coliform Bacteria	C001	0 number/100 ml	13,618	6	0	0	6
<i>Cryptosporidium</i>	C111	-(n/a)	1,418				
<i>E. coli</i>	C002	0 number/100 ml	13,618	0	0	0	0
<b>Totals:</b>			<b>28,654</b>	<b>6</b>			

**Table ANG 3: Quality of water leaving service 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 (Indicator)	C007	No abnormal change	13,612	-(n/a)	0	14
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	13,611	-(n/a)	0	6
Residual Disinfectant - Total	C010	No abnormal change	13,625	-(n/a)	0.32	1.38
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	9,365	0	< 0.06	0.17
<b>Totals:</b>			<b>50,213</b>	<b>0</b>		

**Table ANG 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
Coliform Bacteria	C001	0 number/100 ml	18,931	9	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	18,931	1	0	0	1
<b>Totals:</b>			<b>37,862</b>	<b>10</b>			

**Table ANG 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 (Indicator)	C007	No abnormal change	18,927	-(n/a)	0	207
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	18,927	-(n/a)	0	64
Residual Disinfectant - Total	C010	No abnormal change	18,933	-(n/a)	0.11	0.99
<b>Totals:</b>			<b>56,787</b>	<b>0</b>		

**Table ANG 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	F001	3 µg/l	1,067	0	< 0.024	< 0.12	0
Benzene	F002	1 µg/l	1,067	0	< 0.048	< 0.06	0
Boron	D005A	1 mg B/l	1,065	0	< 0.037	0.2427	0
Bromate	F003	10 µg BrO3/l	1,011	0	< 0.07	2.9404	0
Cyanide	B003	50 µg CN/l	1,067	0	< 1	1.182	0
Fluoride	A027	1.5 mg F/l	1,055	0	0.07456	1.13004	0
Mercury	B005	1 µg Hg/l	1,064	0	< 0.029	< 0.029	0
Pesticides - Total Substances	B010	0.5 µg/l	1,080	0	0	0.22219	0
Pesticides 2,4-D	P020	0.1 µg/l	461	0	< 0.005	0.00738	0
Pesticides Atrazine	P004	0.1 µg/l	1,064	0	< 0.002	0.024	0
Pesticides Benazolin	P138	0.1 µg/l	17	0	< 0.005	0.006	0
Pesticides Bentazone	P006	0.1 µg/l	599	0	< 0.004	0.01	0
Pesticides Bromacil	P086	0.1 µg/l	599	0	< 0.003	< 0.004	0
Pesticides Carbetamide	P010	0.1 µg/l	461	0	< 0.009	0.02338	0
Pesticides Chloridazon	P162	0.1 µg/l	9	0	< 0.004	< 0.004	0
Pesticides Chlortoluron	P014	0.1 µg/l	1,064	0	< 0.003	< 0.003	0
Pesticides Clopyralid	P018	0.1 µg/l	461	1	< 0.007	0.066	1
Pesticides Cyanazine	P092	0.1 µg/l	461	0	< 0.004	< 0.004	0
Pesticides Dichlorprop	P026	0.1 µg/l	599	0	< 0.002	< 0.008	0
Pesticides Diuron	P032	0.1 µg/l	1,064	0	< 0.006	< 0.006	0
Pesticides Ethofumersate	P221	0.1 µg/l	8	0	< 0.007	< 0.007	0
Pesticides Flufenacet	P230	0.1 µg/l	8	0	< 0.004	< 0.004	0
Pesticides Fluroxypyr	P040	0.1 µg/l	8	0	< 0.003	< 0.003	0
Pesticides Glyphosate	P042	0.1 µg/l	59	0	< 0.002	< 0.002	0
Pesticides Isoproturon	P048	0.1 µg/l	1,064	0	< 0.003	< 0.003	0
Pesticides Linuron	P051	0.1 µg/l	1,064	0	< 0.003	< 0.003	0
Pesticides MCPA	P054	0.1 µg/l	599	0	< 0.004	0.007	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	599	0	< 0.003	0.014	0
Pesticides Metaldehyde	P226	0.1 µg/l	245	29	< 0.005	0.14062	8
Pesticides Metazachlor	P203	0.1 µg/l	17	0	< 0.003	0.01	0
Pesticides Monuron	P113	0.1 µg/l	1,064	0	< 0.005	< 0.005	0
Pesticides Prometryn	P070	0.1 µg/l	1,064	0	< 0.003	< 0.003	0
Pesticides Propazine	P066	0.1 µg/l	1,063	0	< 0.002	< 0.003	0

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 Propyzamide	P071	0.1 µg/l	461	0	< 0.004	0.04232	0
Pesticides Quinmerac	P244	0.1 µg/l	111	0	< 0.006	0.05932	0
Pesticides Simazine	P073	0.1 µg/l	1,064	0	< 0.004	0.02175	0
Pesticides Terbutylazine	P173	0.1 µg/l	8	0	< 0.003	0.004	0
Pesticides Terbutryn	P077	0.1 µg/l	1,064	0	< 0.002	0.004	0
Pesticides Trietazine	P132	0.1 µg/l	1,064	0	< 0.002	0.006	0
Tetrachloroethene/Trichloroethene - sum of two su	D009B	10 µg/l	1,067	0	0	1.2064	0
<b>Totals:</b>			<b>27,036</b>	<b>30</b>			

**Table ANG 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	D008	3 µg/l	1,067	0	< 0.042	0.61688	0
<b>Totals:</b>			<b>1,067</b>	<b>0</b>			

**Table ANG 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 (Indicator)	D002A	250 mg Cl/l	1,064	0	16.83	118.35
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	3,893	1	0	0
Conductivity (Indicator)	D001	2500 µS/cm	3,337	0	316.38	924.62
Gross Alpha Activity	F004	0.1 Bq/l	42	0	< 0.023	0.092
Gross Beta Activity	F005	1 Bq/l	42	0	< 0.018	0.138
Sulphate (Indicator)	A007	250 mg SO4/l	1,064	0	9.933	208.05
Total organic carbon (indicator)	A017	No abnormal change	1,064	-(n/a)	0.4865	4.007
Tritium (Indicator)	F006	100 Bq/l	45	0	< 2	< 6
<b>Totals:</b>			<b>10,551</b>	<b>1</b>		

**Table ANG 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 with failures
1,2 Dichloroethane	F001	3 µg/l	22	0	< 0.024	< 0.12	0
Antimony	B008A	5 µg Sb/l	1,249	0	< 0.01	0.915	0
Arsenic	B001A	10 µg As/l	1,250	0	< 0.144	3.6543	0
Benzene	F002	1 µg/l	22	0	< 0.048	< 0.06	0
Benzo (a) Pyrene	D007	0.01 µg/l	1,258	0	< 0.001	< 0.001	0
Boron	D005A	1 mg B/l	22	0	< 0.037	0.434	0
Bromate	F003	10 µg BrO3/l	133	0	< 0.07	1.768	0
Cadmium	B002	5 µg Cd/l	1,250	0	< 0.007	0.07	0
Chromium	B004	50 µg Cr/l	1,250	0	< 1.5	2.449	0
Copper	A024A	2 mg Cu/l	1,249	1	0.00225	0.665	1
Cyanide	B003	50 µg CN/l	22	0	< 1	1.75	0
<i>E. coli</i>	C002	0 number/100 ml	11,699	3	0	0	3
Enterococci	C003	0 number/100 ml	1,253	2	0	0	2
Fluoride	A027	1.5 mg F/l	31	0	0.054	0.737	0
Lead	B007A	25 µg Pb/l	1,249	0	< 0.017	9.7	0
Mercury	B005	1 µg Hg/l	22	0	< 0.029	< 0.029	0
Nickel	B006A	20 µg Ni/l	1,249	3	< 0.146	16.4	3
Nitrate	A012	50 mg NO3/l	2,652	0	0.4023	39.247	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	2,652	0	0.008006	0.78494	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	2,652	0	< 0.005	0.35041	0
Pesticides - Total Substances	B010	0.5 µg/l	35	0	0	0.064	0
Pesticides 2,4-D	P020	0.1 µg/l	4	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	31	0	< 0.003	< 0.03	0
Pesticides Atrazine	P004	0.1 µg/l	30	0	< 0.002	0.014	0
Pesticides Bentazone	P006	0.1 µg/l	4	0	< 0.004	< 0.004	0
Pesticides Bromacil	P086	0.1 µg/l	4	0	< 0.003	< 0.003	0
Pesticides Carbetamide	P010	0.1 µg/l	4	0	< 0.009	< 0.009	0
Pesticides Chlortoluron	P014	0.1 µg/l	30	0	< 0.003	< 0.003	0
Pesticides Clopyralid	P018	0.1 µg/l	4	0	< 0.007	0.011	0
Pesticides Cyanazine	P092	0.1 µg/l	4	0	< 0.004	< 0.004	0
Pesticides Dichlorprop	P026	0.1 µg/l	4	0	< 0.002	< 0.002	0
Pesticides Dieldrin	P028	0.03 µg/l	31	0	< 0.002	< 0.03	0
Pesticides Diuron	P032	0.1 µg/l	30	0	< 0.006	< 0.006	0
Pesticides Heptachlor	P043	0.03 µg/l	31	0	< 0.002	< 0.03	0

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 with failures
Pesticides Heptachlor epoxide	P044	0.03 µg/l	31	0	< 0.002	< 0.03	0
Pesticides Isoproturon	P048	0.1 µg/l	30	0	< 0.003	< 0.003	0
Pesticides Linuron	P051	0.1 µg/l	30	0	< 0.003	< 0.003	0
Pesticides MCPA	P054	0.1 µg/l	4	0	< 0.004	< 0.004	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	4	0	< 0.003	< 0.003	0
Pesticides Metaldehyde	P226	0.1 µg/l	8	0	0.035	0.064	0
Pesticides Monuron	P113	0.1 µg/l	30	0	< 0.005	< 0.005	0
Pesticides Prometryn	P070	0.1 µg/l	30	0	< 0.003	< 0.003	0
Pesticides Propazine	P066	0.1 µg/l	30	0	< 0.002	< 0.002	0
Pesticides Propyzamide	P071	0.1 µg/l	4	0	< 0.004	0.006	0
Pesticides Simazine	P073	0.1 µg/l	30	0	< 0.004	0.007	0
Pesticides Terbutryn	P077	0.1 µg/l	30	0	< 0.002	< 0.002	0
Pesticides Trietazine	P132	0.1 µg/l	30	0	< 0.002	< 0.002	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	1,258	0	0	0.004	0
Selenium	B009	10 µg Se/l	1,250	0	< 0.193	4.1398	0
Tetrachloroethene/Trichloroethene - sum	D009B	10 µg/l	22	0	0	4.54	0
Total Trihalomethanes	D011	100 µg/l	1,248	0	1.149	55.208	0
<b>Totals:</b>			<b>35,501</b>	<b>9</b>			

**Table ANG 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 with failures
Aluminium	A021	200 µg Al/l	2,246	0	< 2	5.859	0
Colour	A001	20 mg/l Pt/Co scale	2,302	0	< 0.34	1.4	0
Iron	A022	200 µg Fe/l	3,487	5	< 6	74	5
Manganese	A023	50 µg Mn/l	2,523	0	< 1	9.632	0
Organoleptic Odour	A003	0 Dilution number	2,643	17	0	0	11
Organoleptic Taste	A004	0 Dilution number	2,378	2	0	0	2
Sodium	A009	200 mg Na/l	1,250	0	8.9759	88.947	0
Tetrachloromethane	D008	3 µg/l	22	0	< 0.042	< 0.08	0
Turbidity	A002	4 nephelometric turbidity units	2,876	1	< 0.06	0.36	1
<b>Totals:</b>			<b>19,727</b>	<b>25</b>			

Table ANG 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 NH4/l	3,061	0	< 0.005	0.288
Chloride (Indicator)	D002A	250 mg Cl/l	22	0	12.6	83.2
<i>Clostridium perfringens</i> (Indicator)	C004A	0 number/100 ml	39	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	11,699	23	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	11,680	-(n/a)	0	61
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	11,681	-(n/a)	0	60
Conductivity (Indicator)	D001	2500 µS/cm	28	0	278	687
Gross Alpha Activity	F004	0.1 Bq/l	13	4	< 0.03	0.136
Gross Beta Activity	F005	1 Bq/l	13	0	0.043	0.261
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	2,293	0	7.08	7.86
Residual Disinfectant - Total	C010	No abnormal change	11,711	-(n/a)	0.1	1.01
Sulphate (Indicator)	A007	250 mg SO4/l	22	0	8.19	74.8
Total Indicative Dose (Gross Alpha and Beta)	F007	0.1 mSv/year	3	0	0.0053	0.018
Total organic carbon (indicator)	A017	No abnormal change	22	-(n/a)	0.53	3.64
Tritium (Indicator)	F006	100 Bq/l	23	0	< 2	< 4
<b>Totals:</b>			<b>52,310</b>	<b>27</b>		