

Data summary tables for Anglian Water Services (ANH)

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 Anglian Water Services Ltd

Report Date Range: For the whole year 2017

Table ANH 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 ₂ /l	2,019	0	< 0.009	< 0.009	0
Totals:			2,019	0			

Table ANH 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	20,197	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	20,197	4	0	0	4
Totals:			40,394	4			

Table ANH 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	19,969	-n/a	0	5
Residual Disinfectant - Free	C009	No abnormal change	20,217	-n/a	< 0.05	1.25
Residual Disinfectant - Total	C010	No abnormal change	20,217	-n/a	0.31	1.54
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(20,217)	-n/a	0.01	1.08
Turbidity - Indicator	A002A	1 nephelometric turbidity units	11,065	1	< 0.013	0.15
Totals:			71,468	1		

*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 ANH 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	15,761	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	15,761	3	0	0	0
Totals:			31,522	3			

Table ANH 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	15,761	-n/a	0	51
Residual Disinfectant - Free	C009	No abnormal change	15,762	-n/a	< 0.05	0.73
Residual Disinfectant - Total	C010	No abnormal change	15,762	-n/a	0.12	1
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(15,762)	-n/a	0.02	0.85
Totals:			47,285	0		

*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 ANH 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	1,114	0	< 0.127	< 0.164	0
Benzene (Total)	F002	1 µg/l	1,114	0	< 0.037	< 0.078	0
Boron	D005A	1 mg B/l	1,114	0	< 0.068	0.2095	0
Bromate	F003	10 µg BrO ₃ /l	1,106	0	< 0.35	2.643	0
Cyanide (Total)	B003	50 µg CN/l	1,114	0	< 1	1.5385	0
Fluoride (Fluoridated)	A027A	1.2 mg F/l	59	31	0.0926	1.059	7
Fluoride (Total)	A027	1.5 mg F/l	1,007	0	0.095304	1.22976	0
Mercury (Total)	B005	1 µg Hg/l	1,114	0	< 0.029	< 0.029	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	1,129	0	0	0.176	0
Pesticides 2 4-D	P020	0.1 µg/l	110	0	< 0.005	< 0.01835	0
Pesticides 2 4-DB	P082	0.1 µg/l	10	0	< 0.004	< 0.004	0
Pesticides 2,4,5-T	P076	0.1 µg/l	10	0	< 0.004	< 0.004	0
Pesticides Aldrin	P002	0.03 µg/l	43	0	< 0.001	< 0.001	0
Pesticides Atrazine	P004	0.1 µg/l	462	0	< 0.003	0.02937	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	19	0	< 0.005	< 0.005	0
Pesticides Bentazone	P006	0.1 µg/l	520	0	< 0.004	0.01537	0
Pesticides Boscalid	P231	0.1 µg/l	9	0	< 0.009	< 0.009	0
Pesticides Bromacil	P086	0.1 µg/l	130	0	< 0.003	< 0.00921	0
Pesticides Bromoxynil	P008	0.1 µg/l	10	0	< 0.005	< 0.005	0
Pesticides Carbetamide	P010	0.1 µg/l	469	0	< 0.002	0.0179	0
Pesticides Chlorfenvinphos	P013	0.1 µg/l	9	0	< 0.002	< 0.005	0
Pesticides Chloridazon	P162	0.1 µg/l	36	0	< 0.004	< 0.004	0
Pesticides Chlorothalonil	P015	0.1 µg/l	9	0	< 0.01	< 0.02	0
Pesticides Chlorpyrifos (Chlorpyriphos Ethyl)	P017	0.1 µg/l	9	0	< 0.002	< 0.005	0
Pesticides Chlortoluron	P014	0.1 µg/l	184	0	< 0.002	< 0.005	0
Pesticides Clopyralid	P018	0.1 µg/l	540	0	< 0.004	0.03959	0
Pesticides Cyanazine	P092	0.1 µg/l	270	0	< 0.002	< 0.006	0
Pesticides Diazinon	P024	0.1 µg/l	9	0	< 0.003	< 0.006	0
Pesticides Dicamba	P025	0.1 µg/l	9	0	< 0.002	< 0.012	0
Pesticides Dichlorprop	P026	0.1 µg/l	67	0	< 0.002	< 0.002	0
Pesticides Dichlorvos	P027	0.1 µg/l	9	0	< 0.002	< 0.004	0
Pesticides Dieldrin	P028	0.03 µg/l	43	0	< 0.001	< 0.001	0
Pesticides Diflufenican	P157	0.1 µg/l	9	0	< 0.003	< 0.006	0
Pesticides Diuron	P032	0.1 µg/l	917	0	< 0.004	< 0.005	0
Pesticides Ethofumersate	P221	0.1 µg/l	59	0	< 0.007	< 0.007	0
Pesticides Fenpropidin	P168	0.1 µg/l	9	0	< 0.004	< 0.008	0
Pesticides Fenpropimorph	P037	0.1 µg/l	9	0	< 0.003	< 0.006	0
Pesticides Flufenacet	P230	0.1 µg/l	35	0	< 0.004	0.009	0
Pesticides Fluroxypyr	P040	0.1 µg/l	93	0	< 0.003	< 0.012	0
Pesticides Glyphosate	P042	0.1 µg/l	168	0	< 0.002	0.00731	0

Table ANH 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 Heptachlor	P043	0.03 µg/l	42	0	< 0.001	< 0.001	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	43	0	< 0.001	< 0.001	0
Pesticides Isoproturon	P048	0.1 µg/l	257	0	< 0.003	< 0.003	0
Pesticides Lenacil	P109	0.1 µg/l	8	0	< 0.002	< 0.012	0
Pesticides Linuron	P051	0.1 µg/l	930	0	< 0.005	< 0.007	0
Pesticides Malathion	P052	0.1 µg/l	9	0	< 0.003	< 0.007	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	119	0	< 0.004	< 0.0136	0
Pesticides MCPB	P055	0.1 µg/l	34	0	< 0.003	< 0.003	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	263	0	< 0.003	0.01072	0
Pesticides Metalaxyl	P209	0.1 µg/l	9	0	< 0.004	< 0.007	0
Pesticides Metaldehyde	P226	0.1 µg/l	777	9	< 0.004	0.10454	6
Pesticides Metamitron	P194	0.1 µg/l	18	0	< 0.004	< 0.005	0
Pesticides Metazachlor	P203	0.1 µg/l	60	0	< 0.003	0.004	0
Pesticides Monuron	P113	0.1 µg/l	938	0	< 0.003	< 0.006	0
Pesticides Oxamyl	P263	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Pendimethalin	P118	0.1 µg/l	9	0	< 0.003	< 0.005	0
Pesticides Picloram (Total)	P122	0.1 µg/l	10	0	< 0.003	< 0.003	0
Pesticides Prometryne	P070	0.1 µg/l	45	0	< 0.004	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	173	0	< 0.003	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	283	0	< 0.002	0.03416	0
Pesticides Prosulfocarb	P243	0.1 µg/l	60	0	< 0.004	< 0.004	0
Pesticides Quinmerac	P244	0.1 µg/l	176	0	< 0.006	0.02815	0
Pesticides Simazine	P073	0.1 µg/l	430	0	< 0.005	0.02	0
Pesticides Terbutylazine	P173	0.1 µg/l	26	0	< 0.003	0.006	0
Pesticides Terbutryn	P077	0.1 µg/l	84	0	< 0.002	0.003	0
Pesticides Triclopyr	P131	0.1 µg/l	10	0	< 0.006	< 0.006	0
Pesticides Trietazine	P132	0.1 µg/l	929	0	< 0.003	< 0.008	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	1,129	0	0	3.205	0
Totals:			20,036	40			

Table ANH 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	1,115	0	< 0.094	0.42556	0
Totals:			1,115	0			

Table ANH 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	1,114	0	10.03	123
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	3,189	1	0	0
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	3,256	0	316.14	986
Gross Alpha	F004	0.1 Bq/l	17	0	< 0.032	0.099
Gross Beta	F005	1 Bq/l	17	0	< 0.032	0.163
Sulphate	A007	250 mg SO ₄ /l	1,114	0	< 9.317	165.7
Total Organic Carbon	A017	No abnormal change	1,115	-n/a	0.6116	4.0684
Tritium	F006	100 Bq/l	8	0	< 10	< 10
Totals:			9,830	1		

Table ANH 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	27	0	< 0.127	< 0.164	0
Antimony	B008A	5 µg Sb/l	1,308	0	< 0.13	0.5191	0
Arsenic (Total)	B001A	10 µg As/l	1,306	0	< 0.112	2.5786	0
Benzene (Total)	F002	1 µg/l	27	0	< 0.037	< 0.078	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	1,307	0	< 0.001	< 0.001	0
Boron	D005A	1 mg B/l	36	0	< 0.068	0.0886	0
Bromate	F003	10 µg BrO ₃ /l	42	0	< 0.35	3.15	0
Cadmium (Total)	B002	5 µg Cd/l	1,306	0	< 0.007	0.0593	0
Chromium (Total)	B004	50 µg Cr/l	1,306	0	< 0.673	< 0.673	0
Copper (Total)	A024A	2 mg Cu/l	1,304	0	< 0.002	0.56575	0
Cyanide (Total)	B003	50 µg CN/l	36	0	< 1	1.25	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	12,700	2	0	0	2
Enterococci (Confirmed)	C003	0 number/100 ml	1,306	0	0	0	0
Fluoride (Fluoridated)	A027A	1.2 mg F/l	151	120	0.08416	1.05348	18
Fluoride (Total)	A027	1.5 mg F/l	178	0	0.068382	1.04646	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	1,304	4	< 0.16	6.3605	4
Mercury (Total)	B005	1 µg Hg/l	36	0	< 0.029	< 0.029	0
Nickel (Total)	B006A	20 µg Ni/l	1,304	5	< 0.186	13.26	5
Nitrate (Total)	A012	50 mg NO ₃ /l	2,713	0	< 3.763	41.9	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO ₂ /l	2,854	1	< 0.009	0.3109	1
Nitrite/Nitrate formula	A013C	1 mg NO ₂ /l	2,713	1	0	0.84	1
Pesticides (Total by Calculation)	B010	0.5 µg/l	26	0	0	0.103	0
Pesticides 2,4-D	P020	0.1 µg/l	4	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	22	0	< 0.001	< 0.001	0
Pesticides Atrazine	P004	0.1 µg/l	22	0	< 0.003	0.007	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	< 0.002	0.018	0
Pesticides Chlortoluron	P014	0.1 µg/l	22	0	< 0.002	< 0.005	0
Pesticides Clopyralid	P018	0.1 µg/l	12	0	< 0.004	0.04	0
Pesticides Cyanazine	P092	0.1 µg/l	4	0	< 0.002	< 0.002	0
Pesticides Dichlorprop	P026	0.1 µg/l	4	0	< 0.002	< 0.002	0
Pesticides Dieldrin	P028	0.03 µg/l	22	0	< 0.001	< 0.001	0
Pesticides Diuron	P032	0.1 µg/l	22	0	< 0.004	< 0.005	0
Pesticides Heptachlor	P043	0.03 µg/l	23	0	< 0.001	< 0.001	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	22	0	< 0.001	< 0.001	0
Pesticides Isoproturon	P048	0.1 µg/l	22	0	< 0.003	< 0.003	0
Pesticides Linuron	P051	0.1 µg/l	22	0	< 0.005	< 0.007	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	4	0	< 0.004	< 0.004	0

Table ANH 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 MCPP (Mecoprop)	P053	0.1 µg/l	4	0	< 0.003	< 0.003	0
Pesticides Metaldehyde	P226	0.1 µg/l	8	0	0.059	0.071	0
Pesticides Monuron	P113	0.1 µg/l	22	0	< 0.003	< 0.006	0
Pesticides Prometryne	P070	0.1 µg/l	22	0	< 0.004	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	22	0	< 0.003	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	4	0	< 0.002	0.027	0
Pesticides Simazine	P073	0.1 µg/l	22	0	< 0.005	0.005	0
Pesticides Terbutryn	P077	0.1 µg/l	22	0	< 0.002	< 0.003	0
Pesticides Trietazine	P132	0.1 µg/l	22	0	< 0.003	< 0.008	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	1,307	0	0	0.003	0
Selenium (Total)	B009	10 µg Se/l	1,306	0	< 0.35	3.5593	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	9	0	0	0	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	1,321	1	1.8	65.824	1
Totals:			37,620	134			

Table ANH 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	2,376	0	< 14	< 14	0
Colour	A001	20 mg/l Pt/Co scale	2,441	0	< 0.34	1.4	0
Iron (Total)	A022	200 µg Fe/l	3,862	5	< 7	78	5
Manganese (Total)	A023	50 µg Mn/l	2,953	0	< 1	4.746	0
Odour	A003	0 Dilution number	3,328	24	0	0	20
Sodium (Total)	A009	200 mg Na/l	1,306	0	9.057	90.39	0
Taste (Taste Quant)	A004	0 Dilution number	3,351	3	0	0	2
Tetrachloromethane (Total)	D008	3 µg/l	36	0	< 0.094	0.1	0
Turbidity	A002	4 nephelometric turbidity units	3,188	0	< 0.013	0.38	0
Totals:			22,841	32			

Table ANH 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 ₄ /l	3,063	0	< 0.042	0.266
Chloride	D002A	250 mg Cl/l	36	0	5.5	87.1
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	64	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	12,700	20	0	0
Colony Counts After 3 Days At 22°C (Colony Counts)	C007	No abnormal change	3,902	-n/a	0	41
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	41	0	269	777
Gross Alpha	F004	0.1 Bq/l	10	2	< 0.02	0.226
Gross Beta	F005	1 Bq/l	10	0	0.078	0.313
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	2,537	0	7.13	7.87
Residual Disinfectant - Free	C009	No abnormal change	12,717	-n/a	< 0.05	0.68
Residual Disinfectant - Total	C010	No abnormal change	12,717	-n/a	0.11	1.02
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(12,717)	-n/a	0.01	0.91
Sulphate	A007	250 mg SO ₄ /l	36	0	< 9.317	124
Total Organic Carbon	A017	No abnormal change	36	-n/a	0.58	4.25
Tritium	F006	100 Bq/l	9	0	< 10	< 10
Totals:			47,878	22		

*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'.