

Data Summary Tables for Essex and Suffolk Water (ESK)

These tables contain a summary of results of monitoring undertaken by the water company in 2007 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 2007'.

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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Drinking Water Inspectorate
55, Whitehall
London
SW1A 2EY

Enquiries : 020 7270 3370

Data Summary (Q) for ESSEX & SUFFOLK WATER

Table ESK 1: Quality of water leaving service treatment works - European Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	A013B	0.1 mg NO ₂ /l	3051	0	<0.0014	0.019	0
TOTAL	-	-	3051	0	-	-	-

Table ESK 2: Quality of water leaving service treatment works - National Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Coliform Bacteria	C001	0 number/100 ml	4130	0	0	0	0
Cryptosporidium	C111	Oocyst concentration / 10l	1441	0	-	-	0
<i>E. coli</i>	C002	0 number/100 ml	4130	0	0	0	0
TOTAL	-	-	9701	0	-	-	-

Table ESK 3: Quality of water leaving service treatment works - Additional Monitoring Requirements

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	C007	No abnormal change	4130	N/A	0	70
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	4130	N/A	0	21
Residual Disinfectant - Total	C010	No abnormal change	4131	N/A	0.38	1.0268
Turbidity	A002A	1 NTU	4130	0	0.05	0.28
TOTAL	-	-	16521	0	-	-

Table ESK 4: Quality of water leaving service reservoirs - National Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	C001	0 number/100 ml	5580	6	0	0	0
<i>E. coli</i>	C002	0 number/100 ml	5580	0	0	0	0
TOTAL	-	-	11160	6	-	-	-

Table ESK 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	C007	No abnormal change	5580	N/A	0	>300
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	5580	N/A	0	56
Residual Disinfectant - Total	C010	No abnormal change	5580	N/A	0.08	0.6619
TOTAL	-	-	16740	0	-	-

Table ESK 6: Quality of water leaving bulk supply points - European Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
1,2 Dichloroethane	F001	3 µg/l	88	0	<0.049	<0.085	0
Benzene	F002	1 µg/l	88	0	<0.03	<0.042	0
Boron	D005A	1 mg B/l	88	0	0.041	0.17	0
Cyanide	B003	50 µg CN/l	88	0	<0.66	38	0
Mercury	B005	1 µg Hg/l	88	0	<0.037	0.12	0
Pesticides (2,4,5-T)	P076	0.1 µg/l	88	0	<0.0036	<0.0036	0
Pesticides (2,4,-Db)	P082	0.1 µg/l	88	0	<0.0025	0.0069	0
Pesticides (2,4-D)	P020	0.1 µg/l	88	0	<0.0049	0.016	0
Pesticides (Aldrin)	P002	0.03 µg/l	88	0	<0.0043	0.0044	0
Pesticides (Asulam)	P133	0.1 µg/l	88	0	<0.0033	<0.01	0
Pesticides (Atrazine)	P004	0.1 µg/l	88	0	<0.0035	0.01	0
Pesticides (Bentazone)	P006	0.1 µg/l	88	0	<0.002	0.051	0
Pesticides (Bromoxynil)	P008	0.1 µg/l	88	0	<0.0023	0.0034	0
Pesticides (Carbetamide)	P010	0.1 µg/l	88	0	<0.0026	0.1	0
Pesticides (Chlormequat)	P163	0.1 µg/l	88	0	<0.0027	0.0064	0
Pesticides (Chlorothalonil)	P015	0.1 µg/l	88	0	<0.0072	<0.0072	0
Pesticides (Chlorthal)	P175	0.1 µg/l	88	0	<0.0055	<0.0055	0
Pesticides (Chlortoluron)	P014	0.1 µg/l	88	0	<0.0047	<0.0047	0
Pesticides (Clopyralid)	P018	0.1 µg/l	88	1	<0.0069	0.25	1
Pesticides (Dicamba)	P025	0.1 µg/l	88	0	<0.0034	<0.0034	0
Pesticides (Dichlorprop)	P026	0.1 µg/l	88	0	<0.0026	0.0069	0
Pesticides (Dieldrin)	P028	0.03 µg/l	88	0	<0.0056	<0.0056	0
Pesticides (Diuron)	P032	0.1 µg/l	88	0	<0.0019	<0.0019	0
Pesticides (Heptachlor)	P043	0.03 µg/l	88	0	<0.0019	0.0032	0
Pesticides (Heptachlor epoxide)	P044	0.03 µg/l	88	0	<0.0063	<0.0063	0
Pesticides (Ioxynil)	P049	0.1 µg/l	88	0	<0.0028	0.0088	0
Pesticides (Isoproturon)	P048	0.1 µg/l	88	0	<0.0029	0.021	0
Pesticides (Linuron)	P051	0.1 µg/l	88	0	<0.003	<0.003	0
Pesticides (MCPA)	P054	0.1 µg/l	88	0	<0.0037	0.023	0
Pesticides (MCPB)	P055	0.1 µg/l	88	0	<0.0039	0.0042	0
Pesticides (MCPP(Mecoprop))	P053	0.1 µg/l	88	0	<0.0059	0.017	0
Pesticides (Metamitron)	P194	0.1 µg/l	88	0	<0.0046	<0.0046	0
Pesticides (Methabenzthiazuron)	P167	0.1 µg/l	88	0	<0.0029	<0.0029	0
Pesticides (Monuron)	P113	0.1 µg/l	88	0	<0.0027	<0.0027	0
Pesticides (Pendimethalin)	P118	0.1 µg/l	88	0	<0.0049	0.04	0
Pesticides (Pirimicarb)	P064	0.1 µg/l	88	0	<0.0024	<0.012	0
Pesticides (Prometryn)	P070	0.1 µg/l	88	0	<0.0017	<0.0075	0

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Pesticides (Propazine)	P066	0.1 µg/l	88	0	<0.0049	<0.007	0
Pesticides (Propyzamide)	P071	0.1 µg/l	88	0	<0.0037	0.06	0
Pesticides (Simazine)	P073	0.1 µg/l	88	0	<0.0051	0.036	0
Pesticides (Tebuthiuron)	P189	0.1 µg/l	88	0	<0.0048	<0.0048	0
Pesticides (Tecnazene)	P130	0.1 µg/l	88	0	<0.012	<0.012	0
Pesticides (Terbutylazine)	P173	0.1 µg/l	88	0	<0.0026	<0.0098	0
Pesticides (Terbutryn)	P077	0.1 µg/l	88	0	<0.0026	0.0086	0
Pesticides (Trietazine)	P132	0.1 µg/l	88	0	<0.0062	<0.0075	0
Pesticides (Trifluralin)	P081	0.1 µg/l	88	0	<0.0076	<0.0076	0
Pesticides - Total Substances	B010	0.5 µg/l	97	0	0	0.247	0
TOTAL	-	-	4145	1	-	-	-

Table ESK 7: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Radioactivity - Gross Alpha	F004	0.1 Bq/l	88	0	<0.04	<0.04
Radioactivity - Gross Beta	F005	1 Bq/l	88	0	<0.07	0.66
Radioactivity - Tritium	F006	100 Bq/l	88	0	<3.2	4.2
Total Organic Carbon (TOC)	A017	No abnormal change	88	N/A	1.3	4.5
TOTAL	-	-	352	0	-	-

Table ESK 8: Quality of water at consumer's tap (zones) - European Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	F001	3 µg/l	145	0	<0.049	<0.08662	0
Antimony	B008A	5 µg Sb/l	373	0	<0.28	0.6326	0
Arsenic	B001A	10 µg As/l	373	0	0.3248	2.626	0
Benzene	F002	1 µg/l	145	0	<0.03	<0.0636	0
Benzo (a) Pyrene	D007	0.01 µg/l	373	0	<0.0006	0.0009	0
Boron	D005A	1 mg B/l	145	0	<0.026	0.17	0
Bromate	F003	10 µg BrO ₃ /l	373	0	<0.95	3	0
Cadmium	B002	5 µg Cd/l	373	0	<0.0081	0.08268	0
Chromium	B004	50 µg Cr/l	373	0	<0.2	0.896	0
Copper	A024A	2 mg Cu/l	373	0	0.001744	0.33	0
Cyanide	B003	50 µg CN/l	145	0	<0.66	30.16	0
<i>E. coli</i>	C002	0 number/100 ml	4624	0	0	0	0
Enterococci	C003	0 number/100 ml	373	0	0	0	0
Fluoride	A027	1.5 mg F/l	373	0	0.08832	0.9626	0
Lead	B007A	25 µg Pb/l	373	0	<0.025	14.52	0
Mercury	B005	1 µg Hg/l	145	0	<0.037	0.0793	0
Nickel	B006A	20 µg Ni/l	373	0	<0.034	8.1	0
Nitrate	A012	50 mg NO ₃ /l	1637	0	1.1	36	0
Nitrite	A013A	0.5 mg NO ₂ /l	1637	0	<0.0014	0.29	0
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	1637	0	<0.02	<0.72	0
Polycyclic aromatic hydrocarbons (PAHs)	B011F	0.1 µg/l	373	0	0	0.004152	0
Selenium	B009	10 µg Se/l	373	0	<0.31	3.726	0
Tetrachloroethene/Trichloroethene	D009B	10 µg/l	373	0	0	0.2552	0
Trihalomethanes (THMs)	D011	100 µg/l	373	0	6.222	59.56	0
Pesticides (2,4,5-T)	P076	0.1 µg/l	145	0	<0.0036	<0.0036	0
Pesticides (2,4,-Db)	P082	0.1 µg/l	145	0	<0.0025	<0.0025	0
Pesticides (2,4-D)	P020	0.1 µg/l	145	0	<0.0049	0.013	0
Pesticides (Aldrin)	P002	0.03 µg/l	145	0	<0.0043	0.005832	0
Pesticides (Asulam)	P133	0.1 µg/l	145	0	<0.0033	0.01954	0
Pesticides (Atrazine)	P004	0.1 µg/l	145	0	<0.0035	0.008594	0
Pesticides (Bentazone)	P006	0.1 µg/l	145	0	<0.002	0.06686	0
Pesticides (Bromoxynil)	P008	0.1 µg/l	145	0	<0.0023	0.011688	0
Pesticides (Carbetamide)	P010	0.1 µg/l	145	0	<0.0026	<0.0026	0
Pesticides (Chlormequat)	P163	0.1 µg/l	145	0	<0.0027	0.02896	0
Pesticides (Chlorothalonil)	P015	0.1 µg/l	145	0	<0.0072	<0.0072	0
Pesticides (Chlorthal)	P175	0.1 µg/l	145	0	<0.0055	<0.0055	0
Pesticides (Chlortoluron)	P014	0.1 µg/l	145	0	<0.0047	<0.0047	0

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Pesticides (Clopyralid)	P018	0.1 µg/l	145	0	<0.0069	0.07654	0
Pesticides (Dicamba)	P025	0.1 µg/l	145	0	<0.0034	<0.0034	0
Pesticides (Dichlorprop)	P026	0.1 µg/l	145	0	<0.0026	0.00985	0
Pesticides (Dieldrin)	P028	0.03 µg/l	145	0	<0.0056	<0.0056	0
Pesticides (Diuron)	P032	0.1 µg/l	145	0	<0.0019	<0.0019	0
Pesticides (Heptachlor)	P043	0.03 µg/l	145	0	<0.0019	0.005182	0
Pesticides (Heptachlor epoxide)	P044	0.03 µg/l	145	0	<0.0063	<0.0063	0
Pesticides (Ioxynil)	P049	0.1 µg/l	145	0	<0.0028	0.0088	0
Pesticides (Isoproturon)	P048	0.1 µg/l	145	0	<0.0029	0.0207	0
Pesticides (Linuron)	P051	0.1 µg/l	145	0	<0.003	<0.003	0
Pesticides (MCPA)	P054	0.1 µg/l	145	0	<0.0037	0.01254	0
Pesticides (MCPB)	P055	0.1 µg/l	145	0	<0.0039	0.014698	0
Pesticides (MCPB(Mecoprop))	P053	0.1 µg/l	145	0	<0.0059	0.021	0
Pesticides (Metamitron)	P194	0.1 µg/l	145	0	<0.0046	<0.009136	0
Pesticides (Methabenzthiazuron)	P167	0.1 µg/l	145	0	<0.0029	<0.0029	0
Pesticides (Monuron)	P113	0.1 µg/l	145	0	<0.0027	<0.0027	0
Pesticides (Pendimethalin)	P118	0.1 µg/l	145	0	<0.0049	0.02618	0
Pesticides (Pirimicarb)	P064	0.1 µg/l	145	0	<0.0024	<0.012	0
Pesticides (Prometryn)	P070	0.1 µg/l	145	0	<0.0017	<0.0075	0
Pesticides (Propazine)	P066	0.1 µg/l	145	0	<0.0049	<0.007	0
Pesticides (Propyzamide)	P071	0.1 µg/l	145	0	<0.0037	0.02254	0
Pesticides (Simazine)	P073	0.1 µg/l	145	0	<0.0051	0.02408	0
Pesticides (Tebuthiuron)	P189	0.1 µg/l	145	0	<0.0048	<0.0048	0
Pesticides (Tecnazene)	P130	0.1 µg/l	145	0	<0.012	<0.012	0
Pesticides (Terbuthylazine)	P173	0.1 µg/l	145	0	<0.0026	<0.0098	0
Pesticides (Terbutryn)	P077	0.1 µg/l	145	0	<0.0026	<0.0066	0
Pesticides (Trietazine)	P132	0.1 µg/l	145	0	<0.0062	<0.02019	0
Pesticides (Trifluralin)	P081	0.1 µg/l	145	0	<0.0076	<0.0076	0
Pesticides - Total Substances	B010	0.5 µg/l	161	0	0	0.12104	0
TOTAL	-	-	21961	0	-	-	-

Table ESK 9: Quality of water at consumer's tap (zones) - National Standards

Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Aluminium	A021	200 µg Al/l	1673	0	<2.2	13	0
Colour	A001	20 mg/l Pt/Co scale	1726	0	<1.2	4.773	0
Hydrogen ion (pH)	A006	6.5 -10 pH value	1726	0	7.08	7.9373	0
Iron	A022	200 µg Fe/l	1689	1	<2.3	52	1
Manganese	A023	50 µg Mn/l	1673	1	<0.27	7.226	1
Organoleptic Odour	A003	Dilution no. 3 at 25°C	1726	3	0	0	3
Organoleptic Taste	A004	Dilution no. 3 at 25°C	1726	0	0	0	0
Sodium	A009	200 mg Na/l	373	1	13	82	1
Tetrachloromethane	D008	3 µg/l	373	0	<0.074	<0.11	0
Turbidity	A002	4 NTUs	1726	0	0.06054	0.3473	0
TOTAL	-	-	14411	6	-	-	-

Table ESK 10: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Indicator Parameter	Parameter Code	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Ammonium	A014	0.5 mg NH ₄ /l	1726	0	<0.019	0.17
Chloride	D002A	250 mg Cl/l	373	0	30	140
<i>Clostridium perfringens</i>	C004A	0 number/100 ml	1673	3	0	0
Coliform Bacteria	C001A	0 number/100 ml	4624	28	0	0
Colony Counts After 3 Days At 22°C	C007	No abnormal change	1726	N/A	0	>293
Colony Counts After 48 Hours At 37°C	C013	No abnormal change	1726	N/A	0	146
Conductivity	D001	2500 µS/cm	1726	0	590	1100
Hydrogen ion (pH)	A006A	9.5 pH Value	1726	0	7.08	7.9373
Radioactivity - Gross Alpha	F004	0.1 Bq/l	145	0	<0.04	<0.04
Radioactivity - Gross Beta	F005	1 Bq/l	145	0	<0.07	0.7776
Radioactivity - Tritium	F006	100 Bq/l	145	0	<3.2	<3.67
Residual Disinfectant - Total	C010	No abnormal change	4624	N/A	0.12	0.66
Sulphate	A007	250 mg SO ₄ /l	373	0	42.74	220
Total Organic Carbon (TOC)	A017	No abnormal change	145	N/A	1.1	4.608
TOTAL	-	-	20877	31	-	-