

Data summary tables for South East Water (SEW)

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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Site Summary Data for South East Water Plc

Report Date Range: For the whole year 2016

Table SEW 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 ₂ /l	634	0	< 0.006	< 0.006	0
Totals:			634	0			

Table SEW 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	11,653	9	0	0	9
E coli	C002	0 number/100 ml	11,653	0	0	0	0
Totals:			23,306	9			

Table SEW 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	11,652	-n/a	0	13
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	11,652	-n/a	0	12
Residual Disinfectant - Free	C009	No abnormal change	11,649	-n/a	0.14	1.37
Residual Disinfectant - Total	C010	No abnormal change	11,649	-n/a	0.2	1.6
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(11,649)	-n/a	0	0.44
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	11,524	3	< 0.1	0.19
Totals:			58,126	3		

*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 SEW 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	11,679	10	0	0	0
E coli	C002	0 number/100 ml	11,679	0	0	0	0
Totals:			23,358	10			

Table SEW 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	11,678	-n/a	0	> 300
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	11,678	-n/a	0	21
Residual Disinfectant - Free	C009	No abnormal change	11,680	-n/a	< 0.05	0.7
Residual Disinfectant - Total	C010	No abnormal change	11,680	-n/a	0.08	0.85
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(11,680)	-n/a	0	0.33
Totals:			46,716	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 SEW 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
Boron	D005A	1 mg B/l	310	0	< 0.025	0.2939	0
Bromate	F003	10 µg BrO3/l	310	0	< 0.4	1.589	0
Cyanide	B003	50 µg CN/l	310	0	< 2	2.567	0
Mercury	B005	1 µg Hg/l	310	0	< 0.02	< 0.02	0
Pesticides - Total Substances	B010	0.5 µg/l	311	0	0	0.07564	0
Pesticides 2,4,5-T	P076	0.1 µg/l	311	0	< 0.005	< 0.005	0
Pesticides 2,4-D	P020	0.1 µg/l	311	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	317	0	< 0.007	0.0181	0
Pesticides Atrazine	P004	0.1 µg/l	310	0	< 0.005	0.02189	0
Pesticides Bentazone	P006	0.1 µg/l	311	0	< 0.005	0.014	0
Pesticides Bromoxynil	P008	0.1 µg/l	311	0	< 0.005	< 0.005	0
Pesticides Carbendazim	P150	0.1 µg/l	310	0	< 0.005	< 0.005	0
Pesticides Carbetamide	P010	0.1 µg/l	310	0	< 0.005	0.00789	0
Pesticides Chlortoluron	P014	0.1 µg/l	310	0	< 0.005	0.02867	0
Pesticides Dicamba	P025	0.1 µg/l	311	0	< 0.005	< 0.01	0
Pesticides Dichlobenil	P098	0.1 µg/l	333	0	< 0.006	< 0.006	0
Pesticides Dichlorprop	P026	0.1 µg/l	311	0	< 0.005	< 0.005	0
Pesticides Dieldrin	P028	0.03 µg/l	333	0	< 0.006	0.011	0
Pesticides Diuron	P032	0.1 µg/l	310	0	< 0.005	0.006	0
Pesticides Epoxyconazole	P217	0.1 µg/l	310	0	< 0.005	< 0.005	0
Pesticides Fluroxypyr	P040	0.1 µg/l	311	0	< 0.005	< 0.005	0
Pesticides Flutriafol	P039	0.1 µg/l	310	0	< 0.005	< 0.005	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	333	0	< 0.006	< 0.006	0
Pesticides Heptachlor	P043	0.03 µg/l	333	0	< 0.007	0.01366	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	333	0	< 0.012	0.01866	0
Pesticides Isoproturon	P048	0.1 µg/l	310	0	< 0.005	< 0.005	0
Pesticides Linuron	P051	0.1 µg/l	310	0	< 0.005	< 0.005	0
Pesticides MCPA	P054	0.1 µg/l	311	0	< 0.005	< 0.005	0
Pesticides MCPB	P055	0.1 µg/l	311	0	< 0.005	< 0.005	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	311	0	< 0.005	0.007	0
Pesticides Metaldehyde	P226	0.1 µg/l	127	1	< 0.005	0.19788	1
Pesticides Oxadixyl	P154	0.1 µg/l	310	0	< 0.005	0.01689	0
Pesticides Pendimethalin	P118	0.1 µg/l	310	0	< 0.005	< 0.005	0
Pesticides Prometryn	P070	0.1 µg/l	310	0	< 0.005	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	310	0	< 0.005	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	333	0	< 0.008	0.01832	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 Simazine	P073	0.1 µg/l	310	0	< 0.005	0.011	0
Pesticides Terbutryn	P077	0.1 µg/l	310	0	< 0.005	< 0.005	0
Pesticides Tri-allate	P079	0.1 µg/l	333	0	< 0.007	< 0.007	0
Pesticides Trichlopyr	P131	0.1 µg/l	311	0	< 0.005	< 0.007	0
Pesticides Trietazine	P132	0.1 µg/l	310	0	< 0.005	< 0.005	0
Radon	F031	100 Bq/l	121	0	< 10	< 10	0
Totals:			12,828	1			

Table SEW 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)
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	1,536	0	0	0
Gross Alpha Activity	F004	0.1 Bq/l	310	0	0.014	0.06134
Gross Beta Activity	F005	1 Bq/l	310	0	< 0.025	< 0.2889
Sulphate (Indicator)	A007	250 mg SO ₄ /l	310	0	7.122	76.746
Total organic carbon (indicator)	A017	No abnormal change	310	-n/a	< 0.5	4.7
Tritium (Indicator)	F006	100 Bq/l	318	0	< 5	< 10
Totals:			3,094	0		

Table SEW 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	587	0	< 0.03	< 0.04	0
Antimony	B008A	5 µg Sb/l	583	0	< 0.05	0.3716	0
Arsenic	B001A	10 µg As/l	586	0	0.1	6	0
Benzene	F002	1 µg/l	587	0	< 0.01	< 0.02	0
Benzo (a) Pyrene	D007	0.01 µg/l	588	0	< 0.002	< 0.002	0
Boron	D005A	1 mg B/l	210	0	< 0.025	0.13389	0
Bromate	F003	10 µg BrO3/l	212	0	< 0.4	4.387	0
Cadmium	B002	5 µg Cd/l	589	0	< 0.06	< 0.08	0
Chromium	B004	50 µg Cr/l	589	0	< 0.3	1.83	0
Copper	A024A	2 mg Cu/l	583	0	< 0.004	0.5876	0
Cyanide	B003	50 µg CN/l	213	0	< 2	2.572	0
E coli	C002	0 number/100 ml	5,671	1	0	0	1
Enterococci	C003	0 number/100 ml	596	0	0	0	0
Fluoride	A027	1.5 mg F/l	582	0	0.02283	0.34149	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	582	3	< 0.5	6.851	3
Mercury	B005	1 µg Hg/l	210	0	< 0.02	< 0.02	0
Nickel	B006A	20 µg Ni/l	583	2	< 0.3	10.416	2
Nitrate	A012	50 mg NO3/l	584	0	< 2	43.46	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	584	0	0	0.8692	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	584	0	< 0.006	0.006	0
Pesticides - Total Substances	B010	0.5 µg/l	216	0	0	0.11113	0
Pesticides 2,4,5-T	P076	0.1 µg/l	213	0	< 0.005	< 0.005	0
Pesticides 2,4-D	P020	0.1 µg/l	213	0	< 0.005	0.01616	0
Pesticides Aldrin	P002	0.03 µg/l	219	0	< 0.007	0.015	0
Pesticides Atrazine	P004	0.1 µg/l	212	0	< 0.005	0.023	0
Pesticides Bentazone	P006	0.1 µg/l	213	0	< 0.005	< 0.01	0
Pesticides Bromoxynil	P008	0.1 µg/l	213	0	< 0.005	< 0.005	0
Pesticides Carbendazim	P150	0.1 µg/l	212	0	< 0.005	< 0.005	0
Pesticides Carbetamide	P010	0.1 µg/l	212	0	< 0.005	0.02161	0
Pesticides Chlortoluron	P014	0.1 µg/l	212	0	< 0.005	< 0.005	0
Pesticides Dicamba	P025	0.1 µg/l	213	0	< 0.005	< 0.01	0
Pesticides Dichlobenil	P098	0.1 µg/l	238	0	< 0.006	< 0.006	0
Pesticides Dichlorprop	P026	0.1 µg/l	213	0	< 0.005	< 0.005	0
Pesticides Dieldrin	P028	0.03 µg/l	238	0	< 0.006	0.01022	0
Pesticides Diuron	P032	0.1 µg/l	212	0	< 0.005	0.00887	0
Pesticides Epoxyconazole	P217	0.1 µg/l	212	0	< 0.005	< 0.005	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 failing standard
Pesticides Fluroxypyr	P040	0.1 µg/l	213	0	< 0.005	0.00672	0
Pesticides Flutriafol	P039	0.1 µg/l	212	0	< 0.005	0.00587	0
Pesticides Gamma-HCH (Lindane)	P041	0.1 µg/l	238	0	< 0.006	< 0.006	0
Pesticides Heptachlor	P043	0.03 µg/l	238	0	< 0.007	0.01722	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	238	0	< 0.012	0.01544	0
Pesticides Isoproturon	P048	0.1 µg/l	212	0	< 0.005	< 0.005	0
Pesticides Linuron	P051	0.1 µg/l	212	0	< 0.005	< 0.005	0
Pesticides MCPA	P054	0.1 µg/l	213	0	< 0.005	0.02516	0
Pesticides MCPB	P055	0.1 µg/l	213	0	< 0.005	< 0.005	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	213	0	< 0.005	0.01216	0
Pesticides Metaldehyde	P226	0.1 µg/l	128	1	< 0.005	0.09185	1
Pesticides Oxadixyl	P154	0.1 µg/l	212	0	< 0.005	< 0.005	0
Pesticides Pendimethalin	P118	0.1 µg/l	212	0	< 0.005	< 0.005	0
Pesticides Prometryn	P070	0.1 µg/l	212	0	< 0.005	< 0.005	0
Pesticides Propazine	P066	0.1 µg/l	212	0	< 0.005	< 0.005	0
Pesticides Propyzamide	P071	0.1 µg/l	238	0	< 0.008	0.02954	0
Pesticides Simazine	P073	0.1 µg/l	212	0	< 0.005	0.01687	0
Pesticides Terbutryn	P077	0.1 µg/l	212	0	< 0.005	< 0.005	0
Pesticides Tri-allate	P079	0.1 µg/l	238	0	< 0.007	< 0.007	0
Pesticides Trichlopyr	P131	0.1 µg/l	213	0	< 0.005	< 0.007	0
Pesticides Trietazine	P132	0.1 µg/l	212	0	< 0.005	0.008	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	587	0	0	0.00624	0
Selenium	B009	10 µg Se/l	583	0	< 0.3	2.63648	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	587	0	0	1.624	0
Total Trihalomethanes	D011	100 µg/l	583	0	0.868	75.36	0
Totals:			25,607	7			

Table SEW 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	1,244	0	< 4.4	50.18	0
Colour	A001	20 mg/l Pt/Co scale	2,210	0	< 1	2	0
Iron	A022	200 µg Fe/l	1,742	11	< 3	162.88	7
Manganese	A023	50 µg Mn/l	1,562	0	< 0.9	13.048	0
Organoleptic Odour	A003	0 Dilution number	2,219	10	0	0	10
Organoleptic Taste	A004	0 Dilution number	2,214	0	0	0	0
Sodium	A009	200 mg Na/l	580	0	6.381	137.447	0
Tetrachloromethane	D008	3 µg/l	587	0	< 0.04	0.1424	0
Turbidity	A002	4 nephelometric turbidity units	2,239	0	< 0.1	0.442	0
Totals:			14,597	21			

Table SEW 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 ₄ /l	1,254	0	< 0.03	< 0.03
Chloride (Indicator)	D002A	250 mg Cl/l	584	0	11.1715	71.9645
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	665	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	5,671	15	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	5,670	-n/a	0	50
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	5,658	-n/a	0	49
Conductivity (Indicator)	D001	2500 µS/cm	2,210	0	201	723
Gross Alpha Activity	F004	0.1 Bq/l	209	0	0.014	0.0492
Gross Beta Activity	F005	1 Bq/l	209	0	0.0299	< 0.28
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	2,210	0	7.1	8.2
Residual Disinfectant - Free	C009	No abnormal change	5,750	-n/a	< 0.05	0.66
Residual Disinfectant - Total	C010	No abnormal change	5,744	-n/a	0.08	0.85
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(5,744)	-n/a	0	0.35
Sulphate (Indicator)	A007	250 mg SO ₄ /l	211	0	8.272	82.5
Total organic carbon (indicator)	A017	No abnormal change	210	-n/a	< 0.5	4.612
Tritium (Indicator)	F006	100 Bq/l	223	0	< 5	< 10
Totals:			36,478	15		

*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'.