

## **Data summary tables for South Staffordshire Water Plc (SST)**

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 South Staffordshire Water Plc

Report Date Range: For the whole year 2017

**Table SST 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 <sub>2</sub> /l	170	0	< 0.006	< 0.01174	0
<b>Totals:</b>			<b>170</b>	<b>0</b>			

**Table SST 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	3,698	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	3,698	3	0	0	3
<b>Totals:</b>			<b>7,396</b>	<b>3</b>			

**Table SST 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	3,697	-n/a	0	12
Residual Disinfectant - Free	C009	No abnormal change	3,701	-n/a	0.17	1.11
Residual Disinfectant - Total	C010	No abnormal change	3,701	-n/a	0.19	1.3
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	-(n/a)	-(n/a)	(3,701)	-n/a	0	0.35
Turbidity - Indicator	A002A	1 nephelometric turbidity units	3,705	0	< 0.06	0.21
<b>Totals:</b>			<b>14,804</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'.

**Table SST 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	1,652	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	1,652	0	0	0	0
<b>Totals:</b>			<b>3,304</b>	<b>0</b>			

**Table SST 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	1,654	-n/a	0	> 300
Residual Disinfectant - Free	C009	No abnormal change	1,655	-n/a	0.02	0.54
Residual Disinfectant - Total	C010	No abnormal change	1,655	-n/a	0.07	0.7444
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(1,655)</i>	<i>-n/a</i>	<i>0</i>	<i>0.33</i>
<b>Totals:</b>			<b>4,964</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'.

Table SST 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	161	0	< 0.04	0.1384	0
Benzene (Total)	F002	1 µg/l	161	0	< 0.01	0.08	0
Cyanide (Total)	B003	50 µg CN/l	161	0	< 2	3.76	0
Mercury (Total)	B005	1 µg Hg/l	161	0	< 0.02	< 0.04	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	158	0	0	0.17994	0
Pesticides 2 4-D	P020	0.1 µg/l	66	0	< 0.005	0.013	0
Pesticides 2 4-DB	P082	0.1 µg/l	53	0	< 0.005	< 0.007	0
Pesticides 2,3,6-Tba	P074	0.1 µg/l	42	0	< 0.009	0.009	0
Pesticides 2,4,5-T	P076	0.1 µg/l	42	0	< 0.005	< 0.009	0
Pesticides Aldrin	P002	0.03 µg/l	9	0	< 0.004	0.011	0
Pesticides Atrazine	P004	0.1 µg/l	83	0	< 0.002	0.024	0
Pesticides Benazolin (Total)	P138	0.1 µg/l	42	0	< 0.005	< 0.011	0
Pesticides Bentazone	P006	0.1 µg/l	60	0	< 0.002	0.008	0
Pesticides Bromacil	P086	0.1 µg/l	10	0	< 0.003	< 0.003	0
Pesticides Bromoxynil	P008	0.1 µg/l	42	0	< 0.004	< 0.006	0
Pesticides Carbetamide	P010	0.1 µg/l	42	0	< 0.002	< 0.005	0
Pesticides Chloridazon	P162	0.1 µg/l	55	0	< 0.003	0.008	0
Pesticides Chlorpropham	P016	0.1 µg/l	28	0	< 0.003	0.003	0
Pesticides Chlorthal (Chlorthal Dimethyl) DCPA	P175	0.1 µg/l	52	0	< 0.01	0.054	0
Pesticides Chlortoluron	P014	0.1 µg/l	21	0	< 0.002	< 0.005	0
Pesticides Clopyralid	P018	0.1 µg/l	46	0	< 0.005	0.032	0
Pesticides Dicamba	P025	0.1 µg/l	28	0	< 0.01	< 0.015	0
Pesticides Dichlorprop	P026	0.1 µg/l	42	0	< 0.005	0.006	0
Pesticides Dieldrin	P028	0.03 µg/l	9	0	< 0.004	< 0.006	0
Pesticides Dimethoate	P029	0.1 µg/l	28	0	< 0.003	< 0.02	0
Pesticides Diuron	P032	0.1 µg/l	49	0	< 0.003	0.01	0
Pesticides Fluroxypyr	P040	0.1 µg/l	42	0	< 0.005	0.009	0
Pesticides Flutriafol	P039	0.1 µg/l	19	0	< 0.002	< 0.005	0
Pesticides Heptachlor	P043	0.03 µg/l	9	0	< 0.002	< 0.007	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	9	0	< 0.003	< 0.012	0
Pesticides Ioxynil	P049	0.1 µg/l	14	0	< 0.004	< 0.005	0
Pesticides Isoproturon	P048	0.1 µg/l	48	0	< 0.002	< 0.005	0
Pesticides Linuron	P051	0.1 µg/l	2	0	< 0.007	< 0.007	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	49	0	< 0.005	0.012	0
Pesticides MCPB	P055	0.1 µg/l	34	0	< 0.005	< 0.007	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	70	0	< 0.004	0.012	0
Pesticides Metaldehyde	P226	0.1 µg/l	97	0	< 0.003	0.079	0
Pesticides Metazachlor	P203	0.1 µg/l	69	0	< 0.002	0.019	0
Pesticides Methabenzthiazuron	P167	0.1 µg/l	14	0	< 0.002	< 0.05	0

**Table SST 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 Pendimethalin	P118	0.1 µg/l	64	0	< 0.002	< 0.005	0
Pesticides Pentachlorophenol	P060	0.1 µg/l	9	0	< 0.006	< 0.009	0
Pesticides Prometryne	P070	0.1 µg/l	28	0	< 0.002	< 0.005	0
Pesticides Propachlor	P126	0.1 µg/l	52	0	< 0.002	< 0.002	0
Pesticides Propazine	P066	0.1 µg/l	38	0	< 0.002	0.016	0
Pesticides Proptham	P067	0.1 µg/l	61	0	< 0.003	< 0.003	0
Pesticides Propyzamide	P071	0.1 µg/l	48	0	0.004	0.059	0
Pesticides Quinmerac	P244	0.1 µg/l	42	0	0.003	0.023	0
Pesticides Simazine	P073	0.1 µg/l	63	0	< 0.003	0.008	0
Pesticides Triclopyr	P131	0.1 µg/l	28	0	< 0.007	< 0.007	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	161	0	0	3.8488	0
<b>Totals:</b>			<b>2,721</b>	<b>0</b>			

**Table SST 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	161	0	< 0.03	0.08	0
<b>Totals:</b>			<b>161</b>	<b>0</b>			

**Table SST 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 (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	1,071	0	0	0
Gross Alpha	F004	0.1 Bq/l	161	23	< 0.019	0.3236
Gross Beta	F005	1 Bq/l	161	0	0.0582	0.4504
<b>Totals:</b>			<b>1,393</b>	<b>23</b>		

Table SST 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
Antimony	B008A	5 µg Sb/l	203	0	0.01	2.6096	0
Arsenic (Total)	B001A	10 µg As/l	200	0	0.2401	3.298	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	202	0	< 0.0008	0.003958	0
Boron	D005A	1 mg B/l	200	0	0.01801	0.11497	0
Bromate	F003	10 µg BrO <sub>3</sub> /l	202	0	0.1	3.394	0
Cadmium (Total)	B002	5 µg Cd/l	200	0	< 0.01	0.2197	0
Chromium (Total)	B004	50 µg Cr/l	200	0	< 0.06	0.3993	0
Copper (Total)	A024A	2 mg Cu/l	200	0	0.001604	0.57668	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	3,504	1	0	0	1
Enterococci (Confirmed)	C003	0 number/100 ml	200	0	0	0	0
Fluoride (Fluoridated)	A027A	1.2 mg F/l	207	23	0.07744	1.1184	12
Fluoride (Total)	A027	1.5 mg F/l	207	0	0.07744	1.1184	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	200	0	< 0.05	5.898	0
Nickel (Total)	B006A	20 µg Ni/l	200	0	< 0.3	8.396	0
Nitrate (Total)	A012	50 mg NO <sub>3</sub> /l	200	0	< 2	36.199	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO <sub>2</sub> /l	200	0	< 0.006	< 0.01	0
Nitrite/Nitrate formula	A013C	1 mg NO <sub>2</sub> /l	200	0	0.042	0.72598	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	200	0	0	0.01393	0
Selenium (Total)	B009	10 µg Se/l	200	0	< 0.12	1.6297	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	202	0	0.503	88.716	0
<b>Totals:</b>			<b>7,327</b>	<b>24</b>			

Table SST 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	1,145	0	< 4.7	60.054	0
Colour	A001	20 mg/l Pt/Co scale	1,145	0	< 0.7	4.5	0
Iron (Total)	A022	200 µg Fe/l	1,145	2	< 3	68.236	2
Manganese (Total)	A023	50 µg Mn/l	1,145	4	< 0.9	8.3	4
Odour	A003	0 Dilution number	1,146	4	0	0	4
Sodium (Total)	A009	200 mg Na/l	200	0	7.71	62.188	0
Taste (Taste Quant)	A004	0 Dilution number	1,145	1	0	0	1
Turbidity	A002	4 nephelometric turbidity units	1,145	0	< 0.06	0.347	0
<b>Totals:</b>			<b>8,216</b>	<b>11</b>			

Table SST 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 NH4/l	1,145	0	< 0.0039	< 0.04
Chloride	D002A	250 mg Cl/l	200	0	22.03	109.97
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	3,504	3	0	0
Colony Counts After 3 Days At 22øc (Colony Counts)	C007	No abnormal change	1,147	-n/a	0	71
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	1,145	0	285	835
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	1,145	0	6.9	8.3
Residual Disinfectant - Free	C009	No abnormal change	3,517	-n/a	0.02	0.59
Residual Disinfectant - Total	C010	No abnormal change	3,518	-n/a	0.1	0.8
<i>Combined Chlorine/Residual Disinfectant Combined*</i>	<i>-(n/a)</i>	<i>-(n/a)</i>	<i>(3,517)</i>	<i>-n/a</i>	<i>0</i>	<i>0.34</i>
Sulphate	A007	250 mg SO4/l	200	0	19.802	149.96
Total Organic Carbon	A017	No abnormal change	200	-n/a	0.401	3.998
<b>Totals:</b>			<b>15,721</b>	<b>3</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'.