

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

These tables contain a summary of results of monitoring undertaken by the water company in 2015 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 2015*.

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 2015

Table SST 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
Cryptosporidium	C111	-(n/a)	59	0	0	0	0
Nitrite (Works)	A013B	0.1 mg NO <sub>2</sub> /l	4,445	0	< 0.01	< 0.01	0
<b>Totals:</b>			<b>4,504</b>	<b>0</b>			

Table SST 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	4,442	1	0	0	1
Cryptosporidium	C111	-(n/a)	59	n/a	0	0	0
E coli	C002	0 number/100 ml	4,442	0	0	0	0
<b>Totals:</b>			<b>8,943</b>	<b>1</b>			

Table SST 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	4,444	-n/a	0	8
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	4,444	-n/a	0	7
Residual Disinfectant - Free	C009	No abnormal change	4,446	-n/a	0.1347	1.08
Residual Disinfectant - Total	C010	No abnormal change	4,446	-n/a	0.17	1.27
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(4,446)	-n/a	0	0.36
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	4,442	0	< 0.08	0.29
<b>Totals:</b>			<b>22,222</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
Coliform Bacteria	C001	0 number/100 ml	1,763	0	0	0	0
E coli	C002	0 number/100 ml	1,763	0	0	0	0
<b>Totals:</b>			<b>3,526</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 22°C (Indicator)	C007	No abnormal change	1,763	-n/a	0	> 300
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,763	-n/a	0	47
Residual Disinfectant - Free	C009	No abnormal change	1,763	-n/a	< 0.02	0.59
Residual Disinfectant - Total	C010	No abnormal change	1,763	-n/a	0.06	0.7936
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(1,763)	-n/a	0	0.31
<b>Totals:</b>			<b>7,052</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	F001	3 µg/l	185	0	< 0.12	< 1	0
Benzene	F002	1 µg/l	186	0	< 0.07	< 1	0
Cyanide	B003	50 µg CN/l	184	0	< 2	3	0
Mercury	B005	1 µg Hg/l	183	0	< 0.002	0.043288	0
Pesticides - Total Substances	B010	0.5 µg/l	184	0	0	0.0866	0
Pesticides 2,3,6-Tba	P074	0.1 µg/l	28	0	< 0.016	0.017	0
Pesticides 2,4-D	P020	0.1 µg/l	55	0	< 0.011	< 0.011	0
Pesticides Atrazine	P004	0.1 µg/l	104	0	< 0.008	0.01795	0
Pesticides Bentazone	P006	0.1 µg/l	65	0	< 0.008	0.011	0
Pesticides Bromacil	P086	0.1 µg/l	92	0	< 0.01	< 0.01	0
Pesticides Carbetamide	P010	0.1 µg/l	46	0	< 0.01	< 0.01	0
Pesticides Chloridazon	P162	0.1 µg/l	38	0	< 0.005	< 0.006	0
Pesticides Chlorpropham	P016	0.1 µg/l	38	0	< 0.002	< 0.004	0
Pesticides Chlorthal	P175	0.1 µg/l	102	0	< 0.01	0.046	0
Pesticides Chlortoluron	P014	0.1 µg/l	46	0	< 0.01	< 0.01	0
Pesticides Clopyralid	P018	0.1 µg/l	56	0	< 0.019	0.023	0
Pesticides Dicamba	P025	0.1 µg/l	28	0	< 0.013	< 0.013	0
Pesticides Dichlorprop	P026	0.1 µg/l	18	0	< 0.011	< 0.011	0
Pesticides Dieldrin	P028	0.03 µg/l	9	0	< 0.002	< 0.002	0
Pesticides Diuron	P032	0.1 µg/l	67	0	< 0.01	0.01	0
Pesticides Flutriafol	P039	0.1 µg/l	19	0	< 0.007	< 0.007	0
Pesticides Isoproturon	P048	0.1 µg/l	52	0	< 0.008	< 0.008	0
Pesticides MCPA	P054	0.1 µg/l	62	0	< 0.009	0.03	0
Pesticides MCPB	P055	0.1 µg/l	10	0	< 0.011	< 0.011	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	85	0	< 0.01	0.022	0
Pesticides Metaldehyde	P226	0.1 µg/l	124	0	< 0.011	0.055	0
Pesticides Metazachlor	P203	0.1 µg/l	65	0	< 0.008	0.028	0
Pesticides Monuron	P113	0.1 µg/l	9	0	< 0.01	< 0.01	0
Pesticides Pendimethalin	P118	0.1 µg/l	57	0	< 0.002	0.007	0
Pesticides Prometryn	P070	0.1 µg/l	28	0	< 0.004	< 0.007	0
Pesticides Propazine	P066	0.1 µg/l	46	0	< 0.005	< 0.005	0
Pesticides Propham	P067	0.1 µg/l	24	0	< 0.002	< 0.002	0
Pesticides Propyzamide	P071	0.1 µg/l	18	0	< 0.002	0.012	0
Pesticides Simazine	P073	0.1 µg/l	46	0	< 0.004	< 0.004	0
Pesticides Trichlopyr	P131	0.1 µg/l	46	0	< 0.015	0.015	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	185	0	0	3.8834	0
<b>Totals:</b>			<b>2,590</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	D008	3 µg/l	185	0	< 0.07	< 1	0
<b>Totals:</b>			<b>185</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 (Indicator)	C004A	0 number/100 ml	1,037	0	0	0
Gross Alpha Activity	F004	0.1 Bq/l	182	36	< 0.02	0.22308
Gross Beta Activity	F005	1 Bq/l	182	0	< 0.04	0.27606
<b>Totals:</b>			<b>1,401</b>	<b>36</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	189	0	< 0.1	2.408	0
Arsenic	B001A	10 µg As/l	189	0	< 0.19	2.505	0
Benzo (a) Pyrene	D007	0.01 µg/l	191	1	< 0.0005	< 0.006912	1
Boron	D005A	1 mg B/l	189	0	< 0.008	0.1212	0
Bromate	F003	10 µg BrO3/l	189	0	< 0.4	2.43	0
Cadmium	B002	5 µg Cd/l	189	0	< 0.1	0.187	0
Chromium	B004	50 µg Cr/l	189	0	< 0.7	< 0.7	0
Copper	A024A	2 mg Cu/l	189	0	< 0.00089	0.6468	0
E coli	C002	0 number/100 ml	3,420	1	0	0	1
Enterococci	C003	0 number/100 ml	189	1	0	1	1
Fluoride	A027	1.5 mg F/l	189	0	0.1659	1.179	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	189	3	< 0.1	13.81	3
Nickel	B006A	20 µg Ni/l	189	1	< 0.8	6.774	1
Nitrate	A012	50 mg NO3/l	189	0	< 1.03	41.85	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	189	0	< 0.03	0.841	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	189	0	< 0.01	< 0.01	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	191	0	0	0.01416	0
Selenium	B009	10 µg Se/l	189	0	< 0.1	0.568	0
Total Trihalomethanes	D011	100 µg/l	192	0	0	73.207	0
<b>Totals:</b>			<b>7,018</b>	<b>21</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	A021	200 µg Al/l	925	4	< 2	166.36	4
Colour	A001	20 mg/l Pt/Co scale	914	0	< 1.7	4.185	0
Iron	A022	200 µg Fe/l	1,103	4	< 4	76.724	4
Manganese	A023	50 µg Mn/l	874	0	< 0.2	16.35	0
Organoleptic Odour	A003	0 Dilution number	742	3	0	0	3
Organoleptic Taste	A004	0 Dilution number	742	3	0	0	3
Sodium	A009	200 mg Na/l	189	0	9.122	58.94	0
Turbidity	A002	4 nephelometric turbidity units	717	0	< 0.08	0.7064	0
<b>Totals:</b>			<b>6,206</b>	<b>14</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 (Indicator)	A014	0.5 mg NH <sub>4</sub> /l	586	0	< 0.03	< 0.03
Chloride (Indicator)	D002A	250 mg Cl/l	189	0	23.9	115.1
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	3,421	7	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	1,134	-n/a	0	93
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,134	-n/a	0	72
Conductivity (Indicator)	D001	2500 µS/cm	586	0	335.61	842.26
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	790	0	7.0391	7.88
Residual Disinfectant - Free	C009	No abnormal change	3,420	-n/a	0.02	0.56
Residual Disinfectant - Total	C010	No abnormal change	3,420	-n/a	0.08	0.75
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(3,420)	-n/a	0	0.32
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	189	0	18.03	155.2
Total organic carbon (indicator)	A017	No abnormal change	189	-n/a	< 0.5	4.61
<b>Totals:</b>			<b>15,058</b>	<b>7</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'.