

Data summary tables for South Staffordshire Water Plc (SST)

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 Staffordshire Water Plc

Report Date Range: For the whole year 2016

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) | 1 | 0 | 0.007 | 0.007 | 1 |
| Nitrite (Works) | A013B | 0.1 mg NO ₂ /l | 200 | 0 | < 0.01 | < 0.01 | 0 |
| Totals: | | | 201 | 0 | | | |

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 | 4,037 | 0 | 0 | 0 | 0 |
| Cryptosporidium | C111 | -(n/a) | 1 | 0 | 0 | 0 | 0 |
| E coli | C002 | 0 number/100 ml | 4,037 | 0 | 0 | 0 | 0 |
| Totals: | | | 8,075 | 0 | | | |

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 | 4,036 | -n/a | 0 | 2 |
| Colony Counts After 48 Hours At 37°C (Indicator) | C013 | No abnormal change | 4,036 | -n/a | 0 | 3 |
| Residual Disinfectant - Free | C009 | No abnormal change | 4,038 | -n/a | 0.14 | 1.18 |
| Residual Disinfectant - Total | C010 | No abnormal change | 4,038 | -n/a | 0.18 | 1.4161 |
| Combined Chlorine/Residual Disinfectant Combined* | -(n/a) | -(n/a) | (4,038) | -n/a | 0 | 0.34 |
| Turbidity (Indicator) | A002A | 1 nephelometric turbidity units | 4,045 | 0 | < 0.06 | 0.28 |
| Totals: | | | 20,193 | 0 | | |

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 | 1,744 | 1 | 0 | 0 | 0 |
| E coli | C002 | 0 number/100 ml | 1,744 | 0 | 0 | 0 | 0 |
| Totals: | | | 3,488 | 1 | | | |

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 | 1,744 | -n/a | 0 | 228 |
| Colony Counts After 48 Hours At 37°C (Indicator) | C013 | No abnormal change | 1,744 | -n/a | 0 | 15 |
| Residual Disinfectant - Free | C009 | No abnormal change | 1,744 | -n/a | 0.02 | 0.5455 |
| Residual Disinfectant - Total | C010 | No abnormal change | 1,744 | -n/a | 0.08 | 0.75 |
| Combined Chlorine/Residual Disinfectant Combined* | -(n/a) | -(n/a) | (1,744) | -n/a | 0 | 0.33 |
| Totals: | | | 6,976 | 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 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 | 182 | 0 | < 0.05 | 0.1617 | 0 |
| Benzene | F002 | 1 µg/l | 182 | 0 | < 0.02 | < 0.0836 | 0 |
| Cyanide | B003 | 50 µg CN/l | 183 | 0 | < 2 | 3.96 | 0 |
| Mercury | B005 | 1 µg Hg/l | 183 | 0 | < 0.002 | < 0.04 | 0 |
| Pesticides - Total Substances | B010 | 0.5 µg/l | 183 | 0 | 0 | 0.14832 | 0 |
| Pesticides 2,4-D | P020 | 0.1 µg/l | 74 | 0 | < 0.006 | 0.023 | 0 |
| Pesticides Atrazine | P004 | 0.1 µg/l | 105 | 0 | < 0.002 | 0.022 | 0 |
| Pesticides Bentazone | P006 | 0.1 µg/l | 67 | 0 | < 0.002 | 0.016 | 0 |
| Pesticides Bromacil | P086 | 0.1 µg/l | 28 | 0 | < 0.003 | < 0.01 | 0 |
| Pesticides Carbetamide | P010 | 0.1 µg/l | 47 | 0 | < 0.002 | < 0.01 | 0 |
| Pesticides Chloridazon | P162 | 0.1 µg/l | 69 | 0 | < 0.003 | 0.006 | 0 |
| Pesticides Chlorpropham | P016 | 0.1 µg/l | 29 | 0 | < 0.003 | < 0.004 | 0 |
| Pesticides Chlorthal | P175 | 0.1 µg/l | 28 | 0 | < 0.01 | 0.043 | 0 |
| Pesticides Chlortoluron | P014 | 0.1 µg/l | 28 | 0 | < 0.002 | < 0.01 | 0 |
| Pesticides Clopyralid | P018 | 0.1 µg/l | 54 | 0 | < 0.005 | 0.049 | 0 |
| Pesticides Dicamba | P025 | 0.1 µg/l | 29 | 0 | < 0.012 | < 0.015 | 0 |
| Pesticides Dichlorprop | P026 | 0.1 µg/l | 18 | 0 | < 0.006 | 0.013 | 0 |
| Pesticides Dieldrin | P028 | 0.03 µg/l | 12 | 0 | < 0.002 | 0.004 | 0 |
| Pesticides Dimethoate | P029 | 0.1 µg/l | 29 | 0 | < 0.003 | < 0.03 | 0 |
| Pesticides Diuron | P032 | 0.1 µg/l | 65 | 0 | < 0.003 | < 0.01 | 0 |
| Pesticides Fluroxypyr | P040 | 0.1 µg/l | 29 | 0 | < 0.006 | 0.014 | 0 |
| Pesticides Flutriafol | P039 | 0.1 µg/l | 21 | 0 | < 0.002 | < 0.007 | 0 |
| Pesticides Ioxynil | P049 | 0.1 µg/l | 18 | 0 | < 0.004 | < 0.008 | 0 |
| Pesticides Isoproturon | P048 | 0.1 µg/l | 47 | 0 | < 0.002 | < 0.008 | 0 |
| Pesticides Linuron | P051 | 0.1 µg/l | 4 | 0 | < 0.004 | < 0.008 | 0 |
| Pesticides MCPA | P054 | 0.1 µg/l | 53 | 0 | < 0.005 | 0.022 | 0 |
| Pesticides MCPB | P055 | 0.1 µg/l | 28 | 0 | < 0.004 | < 0.011 | 0 |
| Pesticides MCPP(Mecoprop) | P053 | 0.1 µg/l | 86 | 0 | < 0.004 | 0.043 | 0 |
| Pesticides Metaldehyde | P226 | 0.1 µg/l | 117 | 0 | < 0.004 | 0.06304 | 0 |
| Pesticides Metazachlor | P203 | 0.1 µg/l | 78 | 0 | < 0.002 | 0.017 | 0 |
| Pesticides Pendimethalin | P118 | 0.1 µg/l | 80 | 0 | < 0.002 | < 0.036 | 0 |
| Pesticides Pentachlorophenol | P060 | 0.1 µg/l | 11 | 0 | < 0.006 | < 0.007 | 0 |
| Pesticides Prometryn | P070 | 0.1 µg/l | 29 | 0 | < 0.002 | < 0.007 | 0 |
| Pesticides Propazine | P066 | 0.1 µg/l | 49 | 0 | < 0.002 | < 0.005 | 0 |
| Pesticides Propham | P067 | 0.1 µg/l | 48 | 0 | < 0.002 | < 0.018 | 0 |
| Pesticides Propyzamide | P071 | 0.1 µg/l | 47 | 0 | < 0.004 | 0.014 | 0 |
| Pesticides Quinmerac | P244 | 0.1 µg/l | 47 | 0 | < 0.002 | 0.02 | 0 |
| Pesticides Simazine | P073 | 0.1 µg/l | 86 | 0 | < 0.003 | 0.009 | 0 |
| Pesticides Trichlopyr | P131 | 0.1 µg/l | 29 | 0 | < 0.004 | 0.015 | 0 |
| Radon | F031 | 100 Bq/l | 16 | 0 | 4.31 | 14.7 | 0 |
| Tetrachloroethene/Trichloroethene - sum of two substances | D009B | 10 µg/l | 182 | 0 | 0 | 3.2 | 0 |
| Totals: | | | 2,700 | 0 | | | |

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 | 182 | 0 | < 0.03 | 0.07 | 0 |
| Totals: | | | 182 | 0 | | | |

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 | 1,049 | 0 | 0 | 0 |
| Gross Alpha Activity | F004 | 0.1 Bq/l | 180 | 24 | < 0.017 | 0.21076 |
| Gross Beta Activity | F005 | 1 Bq/l | 180 | 0 | < 0.04243 | 0.31023 |
| Tritium (Indicator) | F006 | 100 Bq/l | 3 | 0 | < 10 | < 10 |
| Totals: | | | 1,412 | 24 | | |

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 | 200 | 0 | < 0.01 | 2.1966 | 0 |
| Arsenic | B001A | 10 µg As/l | 200 | 0 | 0.1201 | 2.6966 | 0 |
| Benzo (a) Pyrene | D007 | 0.01 µg/l | 199 | 0 | < 0.0008 | < 0.0015 | 0 |
| Boron | D005A | 1 mg B/l | 200 | 0 | 0.01101 | 0.1199 | 0 |
| Bromate | F003 | 10 µg BrO3/l | 201 | 1 | 0.1 | 9.972 | 1 |
| Cadmium | B002 | 5 µg Cd/l | 200 | 0 | < 0.01 | 0.1899 | 0 |
| Chromium | B004 | 50 µg Cr/l | 200 | 0 | < 0.06 | 0.7 | 0 |
| Copper | A024A | 2 mg Cu/l | 200 | 0 | < 0.001102 | 0.57894 | 0 |
| E coli | C002 | 0 number/100 ml | 3,464 | 0 | 0 | 0 | 0 |
| Enterococci | C003 | 0 number/100 ml | 200 | 0 | 0 | 0 | 0 |
| Fluoride | A027 | 1.5 mg F/l | 200 | 0 | 0.24327 | 1.1 | 0 |
| Lead (>10 µg/l) | B007B | 10 µg Pb/l | 200 | 1 | < 0.05 | 8.869 | 1 |
| Nickel | B006A | 20 µg Ni/l | 199 | 0 | < 0.48 | 3 | 0 |
| Nitrate | A012 | 50 mg NO3/l | 200 | 0 | < 2.56 | 40.696 | 0 |
| Nitrate/Nitrite Formula | A013C | 1 mg NO2/l | 200 | 0 | 0.046 | 0.81 | 0 |
| Nitrite (Consumers tap) | A013A | 0.5 mg NO2/l | 200 | 0 | < 0.01 | < 0.01 | 0 |
| Polycyclic aromatic hydrocarbons | B011F | 0.1 µg/l | 199 | 0 | 0 | 0.005 | 0 |
| Selenium | B009 | 10 µg Se/l | 200 | 0 | < 0.1 | 0.5699 | 0 |
| Total Trihalomethanes | D011 | 100 µg/l | 202 | 0 | 0.6763 | 91.037 | 0 |
| Totals: | | | 7,064 | 2 | | | |

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 | 1,159 | 1 | < 2 | 73 | 1 |
| Colour | A001 | 20 mg/l Pt/Co scale | 1,159 | 0 | < 0.7 | 4.64 | 0 |
| Iron | A022 | 200 µg Fe/l | 1,159 | 0 | < 4 | 67.52 | 0 |
| Manganese | A023 | 50 µg Mn/l | 1,159 | 0 | < 0.2 | 8.48 | 0 |
| Organoleptic Odour | A003 | 0 Dilution number | 1,159 | 0 | 0 | 0 | 0 |
| Organoleptic Taste | A004 | 0 Dilution number | 1,159 | 0 | 0 | 0 | 0 |
| Sodium | A009 | 200 mg Na/l | 200 | 0 | 12.911 | 61.198 | 0 |
| Turbidity | A002 | 4 nephelometric turbidity units | 1,159 | 0 | 0.07 | 0.53 | 0 |
| Totals: | | | 8,313 | 1 | | | |

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 ₄ /l | 1,158 | 0 | < 0.0039 | < 0.03 |
| Chloride (Indicator) | D002A | 250 mg Cl/l | 200 | 0 | 29.02 | 110 |
| Coliform Bacteria (Indicator) | C001A | 0 number/100 ml | 3,465 | 6 | 0 | 0 |
| Colony Counts After 3 Days At 22°C (Indicator) | C007 | No abnormal change | 1,160 | -n/a | 0 | 100 |
| Colony Counts After 48 Hours At 37°C (Indicator) | C013 | No abnormal change | 1,160 | -n/a | 0 | 57 |
| Conductivity (Indicator) | D001 | 2500 µS/cm | 1,159 | 0 | 339.6 | 830 |
| Hydrogen ion (pH) | A006 | 6.5 - 9.5 pH Value | 1,159 | 0 | 6.896 | 7.834 |
| Residual Disinfectant - Free | C009 | No abnormal change | 3,460 | -n/a | 0.02 | 0.5939 |
| Residual Disinfectant - Total | C010 | No abnormal change | 3,460 | -n/a | 0.08 | 0.78 |
| Combined Chlorine/Residual Disinfectant Combined* | -(n/a) | -(n/a) | (3,460) | -n/a | 0 | 0.35 |
| Sulphate (Indicator) | A007 | 250 mg SO ₄ /l | 200 | 0 | 19.803 | 156.99 |
| Total organic carbon (indicator) | A017 | No abnormal change | 201 | -n/a | 0.402 | 5.096 |
| Totals: | | | 16,782 | 6 | | |

*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'.