

## **Data Summary Tables for South West Water Ltd (SWT)**

These tables contain a summary of results of monitoring undertaken by the water company in 2011 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 2011'.

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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## Viewing Site Summary Data for South West Water Ltd

Report Date Range: For the whole year 2011

**Table SWT 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 <sub>2</sub> /l         | 344                   | 0            | < 0.01                                | < 0.01                                 | 0                          |
| <b>Totals:</b>  |                |                                   | <b>344</b>            | <b>0</b>     |                                       |  |                            |

**Table SWT 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                   | 6,888                 | 5            | 0                                     | 0                                      | 3                          |
| <i>Cryptosporidium</i> | C111           | -(n/a)                            | 3,016                 | -(n/a)       |                                       |  |                            |
| <i>E. coli</i>         | C002           | 0 number/100 ml                   | 6,887                 | 2            | 0                                     | 0                                      | 2                          |
| <b>Totals:</b>         |                |                                   | <b>16,791</b>         | <b>7</b>     |                                       |  |                            |

**Table SWT 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                | 6,862                 | -(n/a)                        | 0                                     | 19                                     |
| Colony Counts After 48 Hours At 37°C (Indicator)  | C013           | No abnormal change                | 6,874                 | -(n/a)                        | 0                                     | 7                                      |
| Residual Disinfectant - Free                      | C009           | No abnormal change                | 6,892                 | -(n/a)                        | 0.43                                  | 1.3907                                 |
| Residual Disinfectant - Total                     | C010           | No abnormal change                | 6,892                 | -(n/a)                        | 0.47                                  | 1.44                                   |
| Combined Chlorine/Residual Disinfectant Combined* | -(n/a)         | -(n/a)                            | (6,892)               | -(n/a)                        | 0.01                                  | 1.16                                   |
| Turbidity (Indicator)                             | A002A          | 1 nephelometric turbidity units   | 6,882                 | 2                             | < 0.1                                 | 0.48                                   |
| <b>Totals:</b>                                    |                |                                   | <b>34,402</b>         | <b>2</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 SWT 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                   | 14,232                | 6            | 0                                     | 0                                      | 0                                  |
| <i>E. coli</i>    | C002           | 0 number/100 ml                   | 14,232                | 2            | 0                                     | 0                                      | 2                                  |
| <b>Totals:</b>    |                |                                   | <b>28,464</b>         | <b>8</b>     |                                       |  |                                    |

**Table SWT 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                | 14,157                | -(n/a)                        | 0                                     | > 300                                  |
| Colony Counts After 48 Hours At 37°C (Indicator)  | C013           | No abnormal change                | 14,206                | -(n/a)                        | 0                                     | 83                                     |
| Residual Disinfectant - Free                      | C009           | No abnormal change                | 14,235                | -(n/a)                        | 0.06                                  | 1.05                                   |
| Residual Disinfectant - Total                     | C010           | No abnormal change                | 14,235                | -(n/a)                        | 0.12                                  | 1.09                                   |
| Combined Chlorine/Residual Disinfectant Combined* | -(n/a)         | -(n/a)                            | (14,235)              | -(n/a)                        | 0.01                                  | 0.84                                   |
| <b>Totals:</b>                                    |                |                                   | <b>56,833</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 SWT 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                          | 344                   | 0            | < 0.033                               | 0.073445                               | 0                                  |
| Cyanide                           | B003           | 50 µg CN/l                        | 345                   | 0            | < 1.2                                 | < 2.28                                 | 0                                  |
| Fluoride                          | A027           | 1.5 mg F/l                        | 345                   | 0            | < 0.006                               | 0.14708                                | 0                                  |
| Mercury                           | B005           | 1 µg Hg/l                         | 344                   | 0            | < 0.02                                | 0.09565                                | 0                                  |
| Pesticides - Total Substances     | B010           | 0.5 µg/l                          | 353                   | 0            | 0                                     | 0.07742                                | 0                                  |
| Pesticides 2,4,-Db                | P082           | 0.1 µg/l                          | 341                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides 2,4-D                  | P020           | 0.1 µg/l                          | 341                   | 0            | < 0.002                               | < 0.002                                | 0                                  |
| Pesticides Atrazine               | P004           | 0.1 µg/l                          | 347                   | 0            | < 0.009                               | 0.03752                                | 0                                  |
| Pesticides Azoxystrobin           | P227           | 0.1 µg/l                          | 347                   | 0            | < 0.006                               | < 0.006                                | 0                                  |
| Pesticides Benazolin              | P138           | 0.1 µg/l                          | 341                   | 0            | < 0.004                               | < 0.004                                | 0                                  |
| Pesticides Bentazone              | P006           | 0.1 µg/l                          | 341                   | 0            | < 0.004                               | < 0.004                                | 0                                  |
| Pesticides Boscalid               | P231           | 0.1 µg/l                          | 347                   | 0            | < 0.009                               | < 0.009                                | 0                                  |
| Pesticides Bromoxynil             | P008           | 0.1 µg/l                          | 341                   | 0            | < 0.003                               | 0.00358                                | 0                                  |
| Pesticides Carbendazim            | P150           | 0.1 µg/l                          | 347                   | 0            | < 0.005                               | < 0.005                                | 0                                  |
| Pesticides Chlorfenvinphos        | P013           | 0.1 µg/l                          | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Chlorothalonil         | P015           | 0.1 µg/l                          | 342                   | 0            | < 0.006                               | < 0.006                                | 0                                  |
| Pesticides Chlorpyrifos           | P017           | 0.1 µg/l                          | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Chlortoluron           | P014           | 0.1 µg/l                          | 347                   | 0            | < 0.004                               | < 0.004                                | 0                                  |
| Pesticides Clopyralid             | P018           | 0.1 µg/l                          | 341                   | 0            | < 0.002                               | < 0.002                                | 0                                  |
| Pesticides Cypermethrin           | P094           | 0.1 µg/l                          | 342                   | 0            | < 0.015                               | < 0.015                                | 0                                  |
| Pesticides Cyproconazole          | P207           | 0.1 µg/l                          | 347                   | 0            | < 0.011                               | < 0.011                                | 0                                  |
| Pesticides Cyprodinil             | P228           | 0.1 µg/l                          | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Cyromazine             | P223           | 0.1 µg/l                          | 347                   | 0            | < 0.008                               | < 0.008                                | 0                                  |
| Pesticides Desthioprothioconazole | P237           | 0.1 µg/l                          | 347                   | 0            | < 0.008                               | < 0.008                                | 0                                  |
| Pesticides Diazinon               | P024           | 0.1 µg/l                          | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Dicamba                | P025           | 0.1 µg/l                          | 341                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Dichlobenil            | P098           | 0.1 µg/l                          | 342                   | 0            | < 0.004                               | < 0.004                                | 0                                  |
| Pesticides Dichlorprop            | P026           | 0.1 µg/l                          | 341                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Dieldrin               | P028           | 0.03 µg/l                         | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Diflufenican           | P157           | 0.1 µg/l                          | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Diuron                 | P032           | 0.1 µg/l                          | 347                   | 0            | < 0.006                               | < 0.006                                | 0                                  |
| Pesticides Epoxyconazole          | P217           | 0.1 µg/l                          | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Fenpropimorph          | P037           | 0.1 µg/l                          | 336                   | 0            | < 0.003                               | < 0.003                                | 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 Fluroxypyr          | P040           | 0.1 µg/l                          | 341                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Flusilazole         | P159           | 0.1 µg/l                          | 347                   | 0            | < 0.01                                | < 0.01                                 | 0                                  |
| Pesticides Gamma-HCH (Lindane) | P041           | 0.1 µg/l                          | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Ioxynil             | P049           | 0.1 µg/l                          | 341                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Isoproturon         | P048           | 0.1 µg/l                          | 347                   | 0            | < 0.005                               | < 0.005                                | 0                                  |
| Pesticides Kresoxym-Methyl     | P218           | 0.1 µg/l                          | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Linuron             | P051           | 0.1 µg/l                          | 347                   | 0            | < 0.007                               | < 0.007                                | 0                                  |
| Pesticides MCPA                | P054           | 0.1 µg/l                          | 341                   | 0            | < 0.002                               | < 0.0049                               | 0                                  |
| Pesticides MCPB                | P055           | 0.1 µg/l                          | 341                   | 0            | < 0.002                               | < 0.002                                | 0                                  |
| Pesticides MCPP(Mecoprop)      | P053           | 0.1 µg/l                          | 341                   | 2            | < 0.003                               | 0.03322                                | 1                                  |
| Pesticides Metamitron          | P194           | 0.1 µg/l                          | 347                   | 0            | < 0.009                               | < 0.009                                | 0                                  |
| Pesticides Methiocarb          | P056           | 0.1 µg/l                          | 347                   | 0            | < 0.006                               | < 0.006                                | 0                                  |
| Pesticides Pendimethalin       | P118           | 0.1 µg/l                          | 342                   | 0            | < 0.005                               | < 0.005                                | 0                                  |
| Pesticides Pentachlorophenol   | P060           | 0.1 µg/l                          | 341                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Permethrin          | P119           | 0.1 µg/l                          | 342                   | 0            | < 0.006                               | < 0.006                                | 0                                  |
| Pesticides Picloram            | P122           | 0.1 µg/l                          | 341                   | 0            | < 0.005                               | < 0.005                                | 0                                  |
| Pesticides Propachlor          | P126           | 0.1 µg/l                          | 347                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Propamocarb         | P238           | 0.1 µg/l                          | 347                   | 0            | < 0.005                               | < 0.005                                | 0                                  |
| Pesticides Propetamphos        | P069           | 0.1 µg/l                          | 342                   | 0            | < 0.004                               | < 0.004                                | 0                                  |
| Pesticides Propyzamide         | P071           | 0.1 µg/l                          | 347                   | 0            | < 0.004                               | < 0.004                                | 0                                  |
| Pesticides Simazine            | P073           | 0.1 µg/l                          | 347                   | 0            | < 0.003                               | 0.00452                                | 0                                  |
| Pesticides Tebuconazole        | P177           | 0.1 µg/l                          | 347                   | 0            | < 0.007                               | < 0.007                                | 0                                  |
| Pesticides Tri-allate          | P079           | 0.1 µg/l                          | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| Pesticides Trichlopyr          | P131           | 0.1 µg/l                          | 341                   | 0            | < 0.003                               | < 0.00358                              | 0                                  |
| Pesticides Trifloxystrobin     | P229           | 0.1 µg/l                          | 347                   | 0            | < 0.006                               | < 0.006                                | 0                                  |
| Pesticides Trifluralin         | P081           | 0.1 µg/l                          | 342                   | 0            | < 0.003                               | < 0.003                                | 0                                  |
| <b>Totals:</b>                 |                |                                   | <b>20,277</b>         | <b>2</b>     |                                       |  |                                    |

**Table SWT 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) |
|--|----------------|-----------------------------------|-----------------------|-------------------------------|---------------------------------------|--|
| Chloride (Indicator)                       | D002A          | 250 mg Cl/l                       | 342                   | 0                             | 9                                     | 50.71                                  |
| <i>Clostridium perfringens</i> (Indicator) | C004A          | 0 number/100 ml                   | 2,129                 | 3                             | 0                                     | 0                                      |
| Conductivity (Indicator)                   | D001           | 2500 µS/cm                        | 2,130                 | 0                             | 65.1                                  | 462.69                                 |
| Gross Alpha Activity                       | F004           | 0.1 Bq/l                          | 11                    | 2                             | 0.062                                 | 0.13                                   |
| Gross Beta Activity                        | F005           | 1 Bq/l                            | 11                    | 0                             | 0.068                                 | 0.114                                  |
| Sulphate (Indicator)                       | A007           | 250 mg SO <sub>4</sub> /l         | 341                   | 0                             | < 2.5                                 | 51.816                                 |
| Total organic carbon (indicator)           | A017           | No abnormal change                | 340                   | -(n/a)                        | < 0.3                                 | 3.8                                    |
| <b>Totals:</b>                             |                |                                   | <b>5,304</b>          | <b>5</b>                      |                                       |  |

Table SWT 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 with failures |
|---|----------------|-----------------------------------|-----------------------|--------------|---------------------------------------|--|----------------------------|
| 1,2 Dichloroethane                      | F001           | 3 µg/l                            | 379                   | 0            | < 0.2                                 | < 0.2                                  | 0                          |
| Antimony                                | B008A          | 5 µg Sb/l                         | 379                   | 0            | < 0.05                                | 1.2                                    | 0                          |
| Arsenic                                 | B001A          | 10 µg As/l                        | 379                   | 0            | < 0.3                                 | 1.4                                    | 0                          |
| Benzene                                 | F002           | 1 µg/l                            | 379                   | 0            | < 0.1                                 | < 0.1                                  | 0                          |
| Benzo (a) Pyrene                        | D007           | 0.01 µg/l                         | 383                   | 0            | < 0.001                               | < 0.001                                | 0                          |
| Bromate                                 | F003           | 10 µg BrO3/l                      | 379                   | 0            | < 1                                   | 4.44                                   | 0                          |
| Cadmium                                 | B002           | 5 µg Cd/l                         | 379                   | 0            | < 0.4                                 | < 0.4                                  | 0                          |
| Chromium                                | B004           | 50 µg Cr/l                        | 379                   | 0            | < 0.5                                 | 0.747                                  | 0                          |
| Copper                                  | A024A          | 2 mg Cu/l                         | 389                   | 0            | < 0.0025                              | 0.608                                  | 0                          |
| <i>E. coli</i>                          | C002           | 0 number/100 ml                   | 4,452                 | 1            | 0                                     | 0                                      | 1                          |
| Enterococci                             | C003           | 0 number/100 ml                   | 380                   | 0            | 0                                     | 0                                      | 0                          |
| Lead                                    | B007A          | 25 µg Pb/l                        | 390                   | 0            | < 0.5                                 | 5.5242                                 | 0                          |
| Nickel                                  | B006A          | 20 µg Ni/l                        | 389                   | 0            | < 1.5                                 | 4.924                                  | 0                          |
| Nitrate                                 | A012           | 50 mg NO3/l                       | 379                   | 0            | < 1.6                                 | 39.6                                   | 0                          |
| Nitrate/Nitrite Formula                 | A013C          | 1 mg NO2/l                        | 379                   | 0            | 0                                     | 0.792                                  | 0                          |
| Nitrite (Consumers tap)                 | A013A          | 0.5 mg NO2/l                      | 379                   | 0            | < 0.01                                | < 0.01                                 | 0                          |
| Polycyclic aromatic hydrocarbons        | B011F          | 0.1 µg/l                          | 383                   | 0            | 0                                     | 0.006                                  | 0                          |
| Selenium                                | B009           | 10 µg Se/l                        | 379                   | 0            | < 0.4                                 | 1.2                                    | 0                          |
| Tetrachloroethene/Trichloroethene - sum | D009B          | 10 µg/l                           | 379                   | 0            | 0                                     | 0.5                                    | 0                          |
| Total Trihalomethanes                   | D011           | 100 µg/l                          | 379                   | 0            | 1.84                                  | 82.12                                  | 0                          |
| <b>Totals:</b>                          |                |                                   | <b>11,693</b>         | <b>1</b>     |                                       |  |                            |

**Table SWT 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 with failures |
|--------------------|----------------|-----------------------------------|-----------------------|--------------|---------------------------------------|--|----------------------------|
| Aluminium          | A021           | 200 µg Al/l                       | 1,546                 | 0            | < 2                                   | 58.365                                 | 0                          |
| Colour             | A001           | 20 mg/l Pt/Co scale               | 1,545                 | 0            | < 0.2                                 | 1.9                                    | 0                          |
| Iron               | A022           | 200 µg Fe/l                       | 1,546                 | 1            | < 9                                   | 104.18                                 | 1                          |
| Manganese          | A023           | 50 µg Mn/l                        | 1,546                 | 1            | < 2                                   | 18.853                                 | 1                          |
| Organoleptic Odour | A003           | 0 Dilution number                 | 1,540                 | 1            | 0                                     | 0                                      | 1                          |
| Organoleptic Taste | A004           | 0 Dilution number                 | 1,522                 | 1            | 0                                     | 0                                      | 1                          |
| Sodium             | A009           | 200 mg Na/l                       | 379                   | 0            | < 3.1                                 | 22                                     | 0                          |
| Tetrachloromethane | D008           | 3 µg/l                            | 379                   | 0            | < 0.1                                 | 0.4                                    | 0                          |
| Turbidity          | A002           | 4 nephelometric turbidity units   | 1,545                 | 0            | < 0.1                                 | 0.5454                                 | 0                          |
| <b>Totals:</b>     |                |                                   | <b>11,548</b>         | <b>4</b>     |                                       |  |                            |

**Table SWT 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         | 1,545                 | 0                             | < 0.01                                | 0.05                                   |
| Coliform Bacteria (Indicator)                     | C001A          | 0 number/100 ml                   | 4,452                 | 7                             | 0                                     | 0                                      |
| Colony Counts After 3 Days At 22°C (Indicator)    | C007           | No abnormal change                | 4,427                 | -(n/a)                        | 0                                     | 70                                     |
| Colony Counts After 48 Hours At 37°C (Indicator)  | C013           | No abnormal change                | 4,444                 | -(n/a)                        | 0                                     | 88                                     |
| Hydrogen ion (pH)                                 | A006           | 6.5 - 9.5 pH Value                | 1,533                 | 2                             | 7.134                                 | 9.2                                    |
| Residual Disinfectant - Free                      | C009           | No abnormal change                | 4,458                 | -(n/a)                        | 0.05                                  | 1.03                                   |
| Residual Disinfectant - Total                     | C010           | No abnormal change                | 4,458                 | -(n/a)                        | 0.1                                   | 1.08                                   |
| Combined Chlorine/Residual Disinfectant Combined* | -(n/a)         | -(n/a)                            | (4,458)               | -(n/a)                        | 0.01                                  | 0.8                                    |
| <b>Totals:</b>                                    |                |                                   | <b>25,317</b>         | <b>9</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'.