

**Section: E      Operating Costs and Efficiency**

**Table: E6      Water distribution**

|             |             |             |          |
|-------------|-------------|-------------|----------|
| <b>E6.0</b> | <b>Name</b> | <b>Text</b> | <b>-</b> |
|-------------|-------------|-------------|----------|

**Data Definition:** Name of area

**Processing Rule:** Input field

**Field Type:** Input

**Previous References:** Ofwat 07 Ref:       WICS 06 Ref:

|             |   |            |            |
|-------------|---|------------|------------|
| <b>E6.1</b> | <b>Annual average resident connected population</b> | <b>000</b> | <b>1dp</b> |
|-------------|---|------------|------------|

**Data Definition:** The annual average resident population connected to the water distribution system in each of the distribution sub-areas. The value in the 'total' column should be consistent with those reported in line A2. 1 for the same year.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:       WICS 06 Ref:

|             |                                   |            |            |
|-------------|-----------------------------------|------------|------------|
| <b>E6.2</b> | <b>Total connected properties</b> | <b>000</b> | <b>3dp</b> |
|-------------|-----------------------------------|------------|------------|

**Data Definition:** The total number of connected properties in each area as at September of the reporting year. The value in the 'total' column should be consistent with those reported in line A1.10 for the same year.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|             |  |             |            |
|-------------|--|-------------|------------|
| <b>E6.3</b> | <b>Volume of water delivered to households</b> | <b>MI/d</b> | <b>3dp</b> |
|-------------|--|-------------|------------|

**Data Definition:** The average daily volume of water delivered to households in the report year. The value in the 'total' column should be consistent with the sum of lines A2. 12 and A2. 13 for the relevant year.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|             |  |             |            |
|-------------|--|-------------|------------|
| <b>E6.4</b> | <b>Volume of water delivered to non-households</b> | <b>MI/d</b> | <b>3dp</b> |
|-------------|--|-------------|------------|

**Data Definition:** The average daily volume of water delivered to non-households in the report year. The value in the 'total' column should be consistent with the sum of lines A2.14 and A2.15.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|             |             |                       |            |
|-------------|-------------|-----------------------|------------|
| <b>E6.5</b> | <b>Area</b> | <b>km<sup>2</sup></b> | <b>3dp</b> |
|-------------|-------------|-----------------------|------------|

**Data Definition:** The total land area of the distribution area.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|             |                               |           |            |
|-------------|-------------------------------|-----------|------------|
| <b>E6.6</b> | <b>Number of supply zones</b> | <b>nr</b> | <b>0dp</b> |
|-------------|-------------------------------|-----------|------------|

**Data Definition:** The number of supply zones, as defined in the water quality regulations, contained within each distribution area.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|             |              |           |            |
|-------------|--------------|-----------|------------|
| <b>E6.7</b> | <b>Power</b> | <b>£m</b> | <b>3dp</b> |
|-------------|--------------|-----------|------------|

**Data Definition:** Energy costs as defined in M18W.2 but only including 'Water distribution' and split by operational areas.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|             |                                |           |            |
|-------------|--------------------------------|-----------|------------|
| <b>E6.8</b> | <b>Service charges by SEPA</b> | <b>£m</b> | <b>3dp</b> |
|-------------|--------------------------------|-----------|------------|

**Data Definition:** Service charges as defined in M18W.5 but only including 'Water distribution' and split by operational areas.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: T21, L7 WICS 06 Ref: E1.6

|             |                           |           |            |
|-------------|---------------------------|-----------|------------|
| <b>E6.9</b> | <b>Total direct costs</b> | <b>£m</b> | <b>3dp</b> |
|-------------|---------------------------|-----------|------------|

**Data Definition:** Direct costs as defined in M18W.32 but only including 'Water distribution' and split by operational areas.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: T21, L10 WICS 06 Ref: E1.9

|              |                                  |           |            |
|--------------|----------------------------------|-----------|------------|
| <b>E6.10</b> | <b>General and support costs</b> | <b>£m</b> | <b>3dp</b> |
|--------------|----------------------------------|-----------|------------|

**Data Definition:** General and Support costs as defined in M18W.33 but only including 'Water distribution' and split by operational areas.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: T21,L11 WICS 06 Ref: E1.10 + E1.11

|              |                               |           |            |
|--------------|-------------------------------|-----------|------------|
| <b>E6.11</b> | <b>Functional expenditure</b> | <b>£m</b> | <b>3dp</b> |
|--------------|-------------------------------|-----------|------------|

**Data Definition:** Functional expenditure as described in M18W.34 but only including 'Water distribution' and split by operational areas.

**Processing Rule:** Sum of E6.9 and E6.10

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref: 

|          |
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| T21, L12 |
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 WICS 06 Ref: 

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| E1.12 |
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| <b>E6.12</b> | <b>Potable mains: Band 1 ( &lt;=165mm)</b> | <b>km</b> | <b>2dp</b> |
|--------------|--|-----------|------------|

**Data Definition:** The length of all potable water mains within size band 1 by operational area.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

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| T12, L13, C1 |
|--------------|

 WICS 06 Ref: 

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|              |   |           |            |
|--------------|---|-----------|------------|
| <b>E6.13</b> | <b>Potable mains: Band 2 ( 166 - 320mm)</b> | <b>km</b> | <b>2dp</b> |
|--------------|---|-----------|------------|

**Data Definition:** The length of all potable water mains within size band 2 (165 - 320mm) and split by operational area.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

|              |
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| T12, L13, C2 |
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 WICS 06 Ref: 

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|              |   |           |            |
|--------------|---|-----------|------------|
| <b>E6.14</b> | <b>Potable mains: Band 3 ( 321 - 625mm)</b> | <b>km</b> | <b>2dp</b> |
|--------------|---|-----------|------------|

**Data Definition:** The length of all potable water mains within size band 3 (321 - 625mm) and split by operational area.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|              |   |           |            |
|--------------|---|-----------|------------|
| <b>E6.15</b> | <b>Potable mains: Band 4 ( &gt;625mm)</b> | <b>km</b> | <b>2dp</b> |
|--------------|---|-----------|------------|

**Data Definition:** The length of all potable water mains within size band 4 (>625mm) and split by operational area.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|              |                              |           |            |
|--------------|------------------------------|-----------|------------|
| <b>E6.16</b> | <b>Total length of mains</b> | <b>km</b> | <b>2dp</b> |
|--------------|------------------------------|-----------|------------|

**Data Definition:** The total length of water mains in each distribution area at the end of the report year.

**Processing Rule:** Sum of E6.12 to E6.15

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|              |   |           |            |
|--------------|---|-----------|------------|
| <b>E6.17</b> | <b>Total length of unlined iron mains</b> | <b>km</b> | <b>2dp</b> |
|--------------|---|-----------|------------|

**Data Definition:** The total length of unlined iron water mains in each distribution area at the end of the report year.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|              |  |           |            |
|--------------|--|-----------|------------|
| <b>E6.18</b> | <b>Total length of mains &gt; 320mm diameter</b> | <b>km</b> | <b>2dp</b> |
|--------------|--|-----------|------------|

**Data Definition:** The total length of potable mains in size bands 3 & 4 (>320mm).

**Processing Rule:** Sum of E6.14 and E6.15

**Field Type:** Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|              |                           |           |            |
|--------------|---------------------------|-----------|------------|
| <b>E6.19</b> | <b>Water mains bursts</b> | <b>nr</b> | <b>0dp</b> |
|--------------|---------------------------|-----------|------------|

**Data Definition:** The number of water mains bursts in each distribution area during the report year. A burst is defined as:

Mains bursts include all physical repair work to main from which water is lost and which is attributable to pipes, fitting or joint material failures or movement, or caused or deemed to be caused by conditions or original pipe laying or subsequent changes in ground conditions (such as changes to road formation, loading etc where the costs of repair cannot be recovered from a third party).

Include ferrule failures which are attributable to mains material condition of local ground improvements, but not incidents of ferrule failure due to communication pipe connection. Exclude maintenance work on valve packing, hydrant seals, air valves, etc. For the avoidance of doubt, all leakage occurring at locations or through joint or materials failures which would have been designed for the life of the main (irrespective of whether earlier failure occurs) should be regarded as mains bursts.

Failure of consumable or maintainable items (valve packing, etc) should be classified as leakage. Also include incidents of over pressure or pressure cycling and surge failures etc., which reflect the system operating conditions, even where these failures are accidental rather than associated with weakness in pipe condition. All third party damage should be excluded where costs are potentially (rather than actually) recovered from a third party. If these incidents are significant they should be reported in the commentaries.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|              |                      |             |            |
|--------------|----------------------|-------------|------------|
| <b>E6.20</b> | <b>Leakage level</b> | <b>MI/d</b> | <b>3dp</b> |
|--------------|----------------------|-------------|------------|

**Data Definition:** The estimated level of distribution leakage within each distribution area expressed as MI/d. Leakage is defined in Section A.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|              |   |           |            |
|--------------|---|-----------|------------|
| <b>E6.21</b> | <b>Properties reported for low pressure</b> | <b>nr</b> | <b>Odp</b> |
|--------------|---|-----------|------------|

**Data Definition:** The number of properties which have received, and are likely to continue to receive, a pressure of less than 10m/head (or a flow of less than 9L/min at 10m/head) at the end of the report year.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|              |   |           |            |
|--------------|---|-----------|------------|
| <b>E6.22</b> | <b>Total number of pumping stations</b> | <b>nr</b> | <b>Odp</b> |
|--------------|---|-----------|------------|

**Data Definition:** The total number of water pumping stations in operation during the report year for each distribution area. Include works terminal pumping stations and booster stations but exclude intake and borehole pumps.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|              |   |                        |            |
|--------------|---|------------------------|------------|
| <b>E6.23</b> | <b>Total capacity of pumping stations</b> | <b>m<sup>3</sup>/d</b> | <b>Odp</b> |
|--------------|---|------------------------|------------|

**Data Definition:** The total capacity of water pumping stations in operation during the report year for each distribution area. Include works terminal pumping stations and booster stations but exclude intake and borehole pumps.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref:  WICS 06 Ref:

|              |   |           |            |
|--------------|---|-----------|------------|
| <b>E6.24</b> | <b>Total capacity of booster pumping stations</b> | <b>Kw</b> | <b>1dp</b> |
|--------------|---|-----------|------------|

**Data Definition:** The total capacity of booster pumping stations (including standby pumps) in operation during the report year for each distribution area.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

|          |
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| CM3, L18 |
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 WICS 06 Ref: 

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| E6.15a |
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|              |                             |          |            |
|--------------|-----------------------------|----------|------------|
| <b>E6.25</b> | <b>Average pumping head</b> | <b>m</b> | <b>2dp</b> |
|--------------|-----------------------------|----------|------------|

**Data Definition:** Average pumping head for distribution. The calculation for average pumping head is set out in the definitions for E4. Distribution as defined in RAR 4.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

|   |
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 WICS 06 Ref: 

|       |
|-------|
| E6.16 |
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|              |   |           |            |
|--------------|---|-----------|------------|
| <b>E6.26</b> | <b>Total number of service reservoirs</b> | <b>nr</b> | <b>0dp</b> |
|--------------|---|-----------|------------|

**Data Definition:** The total number of water service reservoirs in operation during the report year for each distribution area. Include treated water service reservoirs at treatment works.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

|          |
|----------|
| CM3, L13 |
|----------|

 WICS 06 Ref: 

|       |
|-------|
| E6.17 |
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|              |   |           |            |
|--------------|---|-----------|------------|
| <b>E6.27</b> | <b>Total capacity of service reservoirs</b> | <b>MI</b> | <b>3dp</b> |
|--------------|---|-----------|------------|

**Data Definition:** The total capacity of water service reservoirs in operation during the report year for each distribution area. Include treated water service reservoirs at treatment works.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

|          |
|----------|
| CM3, L14 |
|----------|

 WICS 06 Ref: 

|       |
|-------|
| E6.18 |
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|              |                                     |           |            |
|--------------|-------------------------------------|-----------|------------|
| <b>E6.28</b> | <b>Total number of water towers</b> | <b>nr</b> | <b>0dp</b> |
|--------------|-------------------------------------|-----------|------------|

**Data Definition:** The total number of water towers in operation during the report year for each distribution area.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

|          |
|----------|
| CM3, L15 |
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 WICS 06 Ref: 

|       |
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| E6.19 |
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|              |                                       |           |            |
|--------------|---------------------------------------|-----------|------------|
| <b>E6.29</b> | <b>Total capacity of water towers</b> | <b>MI</b> | <b>3dp</b> |
|--------------|---------------------------------------|-----------|------------|

**Data Definition:** The total capacity of water towers in operation during the report year for each distribution area.

**Processing Rule:** Column 'Total' is the sum of all inputs

**Field Type:** Input/Calculated

**Previous References:** Ofwat 07 Ref: 

|          |
|----------|
| CM3, L16 |
|----------|

 WICS 06 Ref: 

|       |
|-------|
| E6.20 |
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