Section: **E**   **Operating Costs and Efficiency**

Table: **E7**   **Wastewater explanatory factors - sewerage and sewage treatment by area**

E7.0	Name	Text	-

Data Definition: Name of sub-area.

Processing Rule: Input field

Field Type: Input

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | E7.0 |

E7.1	Annual average resident connected population	000	1dp

Data Definition: The annual average resident population connected to the sewerage system in each of the sewerage sub-areas.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | T17a, L1 | WICS 06 Ref: | E7.1 |

E7.2	Annual average non- resident connected population	000	1dp

Data Definition: Include the holiday and tourist population connected to the sewerage system in each area, averaged over the year. Do not include any allowance for daily commuters.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: T17a, L2   WICS 06 Ref: E7.2

E7.3	Volume of sewage collected (daily average)	Ml/d	1dp

Data Definition: Average daily volume of sewage collected in each area. The reported data should include flows to separate storm-water sewers which discharge direct to water courses.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: T17a, L3   WICS 06 Ref: E7.3

E7.4	Total connected properties	nr	0dp

Data Definition: Number of connected properties in each area at September of the reporting year.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: T17a, L4   WICS 06 Ref: E7.4

E7.5	Area of Sewerage District	km²	0dp

Data Definition: Area of sewerage district.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | T17a, L5 | WICS 06 Ref: | E7.5 |

E7.6	Drained area	km²	0dp

Data Definition: The area within each wastewater district that is drained via a separate foul or combined sewer. Include within the total any area within 50 metres of an existing sewer.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | E7.6 |

E7.7	Annual Precipitation		mm	0dp

Data Definition: Estimated annual total precipitation for the report year. This should be the mean figure for the area drained. Estimates should be consistent with precipitation measured at official rain-gauges. (Information available from the Institute of Hydrology at the British Geological Survey on a calendar year basis. This may require adjustment to produce report year estimates).

(Information available from the Institute of Hydrology at the British Geological Survey on a calendar year basis – may require adjustment to produce report year estimates).

Processing Rule: Input field

Field Type: Input

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | - |

E7.8	Total length of sewer		km	0dp

Data Definition: The length of sewer in each area, including gravity sewers, rising mains, and combined sewers. Include lateral sewers.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | T17a, L6 | WICS 06 Ref: | E7.8 |

E7.9	Total length of lateral sewer		km	0dp

Data Definition: The length of lateral sewer in each area.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | - |

| E7.10 | Length of combined sewer | km | - |

Data Definition: The total length of combined sewer in each sewerage area. Combined sewers are those designed to convey foul and surface water flows.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | E7.10

| E7.11 | Length of separate storm water sewer | km | - |

Data Definition: The total length of storm water sewer in each sewerage area. Storm water sewers are those designed to convey surface water flows only.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | E7.11

| E7.12 | Length of sewer > 1000 mm diameter | km | 0dp |

Data Definition: Length of sewer in each area with an internal diameter > 1000mm.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | E7.12

E7.13	**Length of Critical Sewer**	km	0dp

Data Definition: Length of critical sewer in each area.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | E7.13 |

E7.14	**Sewer Collapses**	nr	0dp

Data Definition: Total number of sewer collapses in the report year in each area.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | E7.14 |

E7.15	**Power**	£m	3dp

Data Definition: All energy costs other than energy used for transport and energy costs associated with the provision of depots and offices - which are included in General and support activities - which are directly attributable the Sewerage service split by operational areas.

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

Field Type: Input/calculated

Previous References: Ofwat 07 Ref: | T22, L2 | WICS 06 Ref: | E2.2 |

E7.16	**Service charges SEPA**	**£m**	**3dp**

Data Definition: Total cost of service charges by SEPA (Scottish Environment Protection Agency) for water abstraction which are directly attributable the Sewerage service split by operational areas.

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

Field Type: Input/calculated

Previous References: Ofwat 07 Ref: | T22, L7 | WICS 06 Ref: | E2.6 |

E7.17	**Total direct costs**	**£m**	**3dp**

Data Definition: The total direct costs attributable to the Sewerage service split by operational areas.

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

Field Type: Input/calculated

Previous References: Ofwat 07 Ref: | T22, L9 | WICS 06 Ref: | E2.9 |

E7.18	General and support costs	£m	3dp

Data Definition: The aggregate direct cost of General and support activities is termed General and support expenditure. General and support activities include all centrally provided services, except for any items specifically covered under the individually identified activities. The following services should be included:

administrative; personnel; financial; legal and property management; research and development; policy determination, implementation and monitoring; audit; public and employee relations; data processing; planning liaison;

vehicles and plant (including hired vehicles and plant, and leased company cars); electrical and mechanical maintenance; land and property maintenance; materials storage; operational and technical support; and general and support buildings.

Where an associated company provides such services, the relevant charge should be included. The direct costs of General and support activities are not required to be separately identified for publication but must be attributable to the sewerage service split by operational areas.

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

Field Type: Input/calculated

Previous References: Ofwat 07 Ref: | T22, L10 | WICS 06 Ref: | E2.10 + E2.11 |

E7.19	Functional expenditure	£m	3dp

Data Definition: The direct costs incurred in the provision of the Sewerage service and business activities, plus an allocation of direct costs incurred in the provision of General and support activities split by operational areas.

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

Field Type: Input/calculated

Previous References: Ofwat 07 Ref: | T22, L11 | WICS 06 Ref: | E2.12 |

E7.20	**Total number of pumping stations**	**nr**	**0dp**

Data Definition: For these purposes a pumping station is defined, as an individual site (i.e. not an individual pump). Include both foul, combined and stormwater pumping stations situated at treatment works (and exclude inter-stage pumping).

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

Field Type: Input/calculated

Previous References: Ofwat 07 Ref: - WICS 06 Ref: E7.15

E7.21	**Total capacity of pumping stations (m³/d)**	**m³/d**	**0dp**

Data Definition: Total peak hydraulic pumping capacity of pumping stations (as defined in E7.15)

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

Field Type: Input/calculated

Previous References: Ofwat 07 Ref: - WICS 06 Ref: E7.16

E7.22	**Total capacity of pumping stations (kw)**	**kw**	**-**

Data Definition: The total capacity of pumping stations (including standby pumps) in operation during the report year for each distribution area. Include foul, combined and storm water pumping stations. Exclude terminal sewage pumping stations situated at treatment works (and exclude interstage pumping).

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

Field Type: Input/calculated

Previous References: Ofwat 07 Ref: - WICS 06 Ref: E7.16a

E7.23	Average pumping head	m	1dp

Data Definition: This is the average pumping head (in metres) required in each area to transfer sewage to a treatment works. The figure reported in the 'total' column is the average pumping head required in the whole of the undertaker's region.

SW should report the dynamic pumping head (i.e. including friction losses) in the table.

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

Field Type: Input/calculated

Previous References: Ofwat 07 Ref: -   WICS 06 Ref: E7.17

E7.24	Total capacity of Combined Pumping Stations	nr	0dp

Data Definition: As for line E7.16 but include only pumping stations receiving combined sewage.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: -   WICS 06 Ref: E7.18

E7.25	Total capacity of combined pumping stations	m³/d	-

Data Definition: As for line E7.16 but include only pumping stations receiving combined sewage.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: -   WICS 06 Ref: E7.19

E7.26	Total number of storm water pumping stations	nr	-

Data Definition: As for line E7.15 but only include pumping stations receiving storm water exclusively.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: - WICS 06 Ref: E7.20

E7.27	Total capacity of storm water pumping stations	m³/d	-

Data Definition: As for line E7.16 but include only pumping stations receiving only storm water.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: WICS 06 Ref: E7.21

E7.28	Number of combined sewer overflows	nr	0dp

Data Definition: The total number of combined sewer overflows on the sewerage system. Those at sewage treatment works should be excluded, as should emergency overflows.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: - WICS 06 Ref: E7.22

E7.29	Number of combined sewer overflows (screened)	nr	0dp

Data Definition: The total number of combined sewer overflows on the sewer system, which are screened.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | E7.23 |

E7.30	Number of sewage treatment works	nr	0dp

Data Definition: Total number of sewage treatment works per operational area.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | - |

E7.31	Total Load	kg/BOD/d	0dp

Data Definition: The Total Load received at sewage treatment works (per operational area).

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | - | WICS 06 Ref: | - |

E7.32	Power		£m	3dp

Data Definition: All energy costs other than energy used for transport and energy costs associated with the provision of depots and offices - which are included in general and support activities - which are directly attributable to the sewage treatment service split by operational areas.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | T22, L2 | WICS 06 Ref: | E2.2 |

E7.33	Service charges SEPA		£m	3dp

Data Definition: Total cost of service charges by SEPA (Scottish Environment Protection Agency) for water abstraction which are directly attributable the sewage treatment service split by operational areas.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | T22, L7 | WICS 06 Ref: | E2.6 |

E7.34	Total direct costs		£m	3dp

Data Definition: Total cost of service charges by SEPA (Scottish Environment Protection Agency) for water abstraction which are directly attributable the sewage treatment service split by operational areas.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | T22, L9 | WICS 06 Ref: | E2.9 |

E7.35	General and support costs	£m	3dp

Data Definition: The aggregate direct cost of general and support activities is termed General and support expenditure. General and support activities include all centrally provided services, except for any items specifically covered under the individually identified activities. The following services should be included:

administrative; personnel; financial; legal and property management; research and development; policy determination, implementation and monitoring; audit; public and employee relations; data processing;
planning liaison; vehicles and plant (including hired vehicles and plant, and leased company cars);

electrical and mechanical maintenance; land and property maintenance; materials storage; operational and technical support; and general and support buildings

Where an associated company provides such services, the relevant charge should be included. The direct costs of general and support activities are not required to be separately identified for publication but must be attributable to the sewage treatment service split by operational areas.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | T22, L10 | WICS 06 Ref: | E2.10 + E2.11 |

E7.36	Functional expenditure	£m	3dp

Data Definition: The direct costs incurred in the provision of the sewage treatment service and business activities, plus an allocation of direct costs incurred in the provision of general and support activities split by operational areas.

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

Field Type: Input/Calculated

Previous References: Ofwat 07 Ref: | T22, L11 | WICS 06 Ref: | E2.12 |