Section E   **Operating Costs and Efficiency**

Table 4   **Water Resources and Treatment**

E4.0	**Area Name**	**Text**	

Data Definition: Name of Area

Processing Rules: Input field.

Field Type: Input

Previous References: **Ofwat 07** | - | **WICS 06** | E4.0

E4.1	**Impounding reservoirs**	**nr, Ml/d**	**0dp, 3dp**

Data Definition: Number of sources and distribution input derived from impounding reservoirs

Processing Rules: Input field. Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs (Ml/d)

Field Type: Input/Calculated

Previous References: **Ofwat 07** | T12, L1 | **WICS 06** | E4.1

E4.2	**Lochs**	**nr, Ml/d**	**0dp, 3dp**

Data Definition: Number of sources and distribution input derived from lochs.

Processing Rules: Input field. Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs (Ml/d)

Field Type: Input/Calculated

Previous References: **Ofwat 07** | - | **WICS 06** | E4.2

E4.3	River and burn abstractions	nr, Ml/d	0dp, 3dp

Data Definition: Number of sources and distribution input derived from river and burn (including via bankside storage) abstractions.

Processing Rules: Input field. Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs (Ml/d)

Field Type: Input/Calculated

Previous References:

Ofwat 07	T12, L2	WICS 06	E4.3

E4.4	Boreholes	nr, Ml/d	0dp, 3dp

Data Definition: Number of sources and distribution input derived from boreholes (including springs).

Processing Rules: Input field. Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs (Ml/d)

Field Type: Input/Calculated

Previous References:

Ofwat 07	T12, L3	WICS 06	E4.4

E4.5	Total	nr, Ml/d	0dp, 3dp

Data Definition: Total number of sources and distribution input

Processing Rules: Sum of E4.1 to E4.4

Field Type: Calculated

Previous References:

Ofwat 07	-	WICS 06	E4.5

E4.6	**Bulk water exports**	nr, Ml/d	0dp, 3dp

Data Definition: The number and volume of raw water exports provided by SW from its own sources outwith SW's service area

Processing Rules: Input field. Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs (Ml/d)

Field Type: Input/Calculated

Previous References:

Ofwat 07	-	**WICS 06**	E4.6

E4.7	**Bulk water imports**	nr, Ml/d	0dp, 3dp

Data Definition: The number and volume of raw water imports imported from resource areas out with those of SW.

Processing Rules: Input field. Column 'Total sources' is the sum of the number of sources and column 'Total source outputs' is the sum of all source outputs (Ml/d)

Field Type: Input/Calculated

Previous References:

Ofwat 07	-	**WICS 06**	E4.7

E4.8	**Impounding reservoirs**	nr	

Data Definition: The proportion of Distribution Input derived from impounding reservoirs for each area.

Processing Rules: Daily output per area (line E4.1) divided by the total daily output of all areas and own sources

Field Type: Calculated

Previous References:

Ofwat 07	-	**WICS 06**	E4.8

E4.9	Lochs	nr	

Data Definition: The proportion of Distribution Input derived from lochs for each area.

Processing Rules: Daily output per area (line E4.2) divided by the total daily output of all areas and own sources

Field Type: Calculated

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.9

E4.10	River and burn abstractions	nr	

Data Definition: The proportion of Distribution Input derived from River and Burn Abstractions (including via bankside storage) for each area.

Processing Rules: Daily output per area (line E4.3) divided by the total daily output of all areas and own sources

Field Type: Calculated

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.10

E4.11	Boreholes	nr	

Data Definition: The proportion of Distribution Input derived from boreholes (including springs) for each area.

Processing Rules: Daily output per area (line E4.4) divided by the total daily output of all areas and own sources

Field Type: Calculated

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.11

E4.12	Total	nr	

Data Definition: The proportion of Total Distribution Input produced in each area.

Processing Rules: Sum of E4.8 to E4.11

Field Type: Calculated

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.12

E4.13	Peak demand - peak to average ratio	nr	0dp

Data Definition: Average daily volume put into supply in peak seven day period in year (peak year of preceding five years)/average daily volume of water put into supply in that year.

Processing Rules: Input field.

Field Type: Input

Previous References:	**Ofwat 07**		**WICS 06**	E4.13

E4.14	Average pumping head - resources and treatment	m	1dp

Data Definition: Average pumping head for resource and treatment. See guidance on how pumping head is calculated.

Processing Rules: Input field.

Field Type: Input

Previous References:	**Ofwat 07**	T12, L5	**WICS 06**	E4.14

E4.15	Power	£m	3dp

Data Definition: Energy costs as defined in E1.2 but only including 'Resources and Treatment' and split by operational areas.

Processing Rules: Input field. Column 'Total' is the sum of all inputs.

Field Type: Input/Calculated

Previous References:	**Ofwat 07**	T21, L2	**WICS 06**	E1.2

E4.16	Service charges by SEPA	£m	3dp

Data Definition: Service charges as defined in E1.5 but only including 'Resources and Treatment' and split by operational areas.

Processing Rules: Input field. Column 'Total' is the sum of all inputs.

Field Type: Input/Calculated

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

E4.17	Total direct costs	£m	3dp

Data Definition: Direct costs as defined in E1.8 but only including 'Resources and Treatment' and split by operational areas.

Processing Rules: Input field. Column 'Total' is the sum of all inputs.

Field Type: Input/Calculated

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

E4.18	**General and support costs**	**£m**	**3dp**

Data Definition: General and Support costs as defined in E1.9 but only including 'Resources and Treatment' and split by operational areas.

Processing Rules: Input field. Column 'Total' is the sum of all inputs.

Field Type: Input/Calculated

Previous References:

Ofwat 07	T21, L11	**WICS 06**	E1.10 + E1.11

E4.19	**Functional expenditure**	**£m**	**3dp**

Data Definition: Functional expenditure as described in E1.10 but only including 'Resources and Treatment' and split by operational areas.

Processing Rules: Sum of E4.17 and E4.18

Field Type: Calculated

Previous References:

Ofwat 07	T21, L12	**WICS 06**	E1.12

E4.20	**Simple Disinfection**	**nr, Ml/d, £m**	**0dp, 3dp, 3dp**

Data Definition: Number of treatment works, average distribution input and direct costs derived from works with simple disinfection.

Processing Rules: Input field. Column 'Tot. prop'n of D.I.' divides distribution input from 'simple treatment' works by the total distribution input (calculated in E4.26)

Field Type: Input/Calculated

Previous References:

Ofwat 07	T12, L6	**WICS 06**	E4.17

E4.21	W1		nr, Ml/d, £m	0dp, 3dp, 3dp

Data Definition: Number of works, average distribution input and operating costs (direct and general & support) for works in category W1.

Processing Rules: Input field. Column 'Tot. prop'n of D.I.' divides distribution input from W1 treatment works by the total distribution input (calculated in E4.26)

Field Type: Input/Calculated

Previous References:

Ofwat 07	T12, L7	WICS 06	E4.18

E4.22	W2		nr, Ml/d, £m	0dp, 3dp, 3dp

Data Definition: Number of works and average distribution input and operating costs (direct and general & support) for works in category W2.

Processing Rules: Input field. Column 'Tot. prop'n of D.I.' divides distribution input from W2 treatment works by the total distribution input (calculated in E4.26)

Field Type: Input/Calculated

Previous References:

Ofwat 07	T12, L8	WICS 06	E4.19

E4.23	W3		nr, Ml/d, £m	0dp, 3dp, 3dp

Data Definition: Number of works and average distribution input and operating costs (direct and general & support) for works in category W3.

Processing Rules: Input field. Column 'Tot. prop'n of D.I.' divides distribution input from W3 treatment works by the total distribution input (calculated in E4.26)

Field Type: Input/Calculated

Previous References:

Ofwat 07	T12, L9	WICS 06	E4.20

E4.24	W4	nr, Ml/d, £m	0dp, 3dp, 3dp

Data Definition: Number of works and average distribution input and operating costs (direct and general & support) for works in category W4.

Processing Rules: Input field. Column 'Tot. prop'n of D.I.' divides distribution input from W4 treatment works by the total distribution input (calculated in E4.26)

Field Type: Input/Calculated

Previous References: | Ofwat 07 | T12, L10 | WICS 06 | E4.21 |

E4.25	Total numbers of works	nr	0dp

Data Definition: Total number of treatment works.

Processing Rules: Sum of E4.20 to E4.24

Field Type: Calculated

Previous References: | Ofwat 07 | T12, L12 | WICS 06 | E4.22 |

E4.26	Total distribution input	Ml/d	

Data Definition: The distribution input for all treatment categories.

Processing Rules: Sum of E4.20 to E4.24

Field Type: Calculated

Previous References: | Ofwat 07 | T12, L11 | WICS 06 | E4.23 |

E4.27	Total Operating costs	£M	3dp

Data Definition: Total operating costs (direct and general & support) associated with water treatment works.

Processing Rules: Sum of E4.20 to E4.24

Field Type: Calculated

Previous References:

Ofwat 07	-	WICS 06	-

E4.28	Size band <=1 Ml/d	nr, 0/1, £M	0dp,0/1, 3dp

Data Definition: Total number of works and proportion of distribution input derived from works falling into size band <=1 M/ld. The total direct costs and general and support costs, as defined in Section E1, for works falling into size band <=1 M/ld.

Processing Rules: Input field.

Field Type: Input

Previous References:

Ofwat 07	-	WICS 06	E4.30, E4.47

E4.29	Size band >1 - <=2.5 Ml/d	nr, 0/1, £M	0dp,0/1, 3dp

Data Definition: Total number of works and proportion of distribution input derived from works falling into size band >1-<=2.5 M/ld. The total direct costs and general and support costs, as defined in Section E1, for treatment works size band >1 Ml/d to <= 2.5 Ml/d.

Processing Rules: Input field.

Field Type: Input

Previous References:

Ofwat 07	-	WICS 06	E4.31, E4.48

E4.30	Size band >2.5 - <=5 Ml/d	nr, 0/1, £m	0dp,0/1, 3dp

Data Definition: Total number of works and proportion of distribution input derived from works falling into size band >2.5 -<= 5 M/ld. The total direct costs and general and support costs, as defined in Section E1, for treatment works size band >2.5 Ml/d to <= 5 Ml/d.

Processing Rules: Input field.

Field Type: Input

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.32, E4.49

E4.31	Size band >5 - <=10 Ml/d	nr, 0/1, £m	0dp,0/1, 3dp

Data Definition: Total number of works and proportion of distribution input derived from works falling into size band >5 - <= 10 M/ld. The total direct costs and general and support costs, as defined in Section E1, for treatment works size band 5 Ml/d to <= 10 Ml/d.

Processing Rules: Input field.

Field Type: Input

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.33, E4.50

E4.32	Size band >10 - <=25 Ml/d	nr, 0/1, £m	0dp,0/1, 3dp

Data Definition: Total number of works and proportion of distribution input derived from works falling into size band >10 -<=25 M/ld. The total direct costs and general and support costs, as defined in Section E1, for treatment works size band >10 Ml/d to <= 25 Ml/d.

Processing Rules: Input field.

Field Type: Input

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.34, E4.51

E4.33	Size band >25 - <=50 Ml/d	nr, 0/1, £m	0dp,0/1, 3dp

Data Definition: Total number of works and proportion of distribution input derived from works falling into size band >25 -<=50 M/ld. The total direct costs and general and support costs, as defined in Section E1, for treatment works size band >25 Ml/d to <= 50 Ml/d.

Processing Rules: Input field.

Field Type: Input

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.35, E4.53

E4.34	Size band >50 - <=100 Ml/d	nr, 0/1, £m	0dp,0/1, 3dp

Data Definition: Total number and proportion of distribution input derived from works falling into size band >50 -<=100 M/ld. The total direct costs and general and support costs, as defined in Section E1, for treatment works size band >50 Ml/d to <= 100 Ml/d.

Processing Rules: Input field.

Field Type: Input

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.36, E4.54

E4.35	Size band >100 - <=175 Ml/d	nr, 0/1, £m	0dp,0/1, 3dp

Data Definition: Total number of works and proportion of distribution input derived from works falling into size band>100 - <=175 M/ld. The total direct costs and general and support costs, as defined in Section E1, for treatment works size band >100 Ml/d to <= 175 Ml/d.

Processing Rules: Input field.

Field Type: Input

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.37, E4.55

E4.36	Size band >175 Ml/d	nr, 0/1, £m	0dp,0/1, 3dp

Data Definition: Total number of works and proportion of distribution input derived from works falling into size band > 175 M/ld. The total direct costs and general and support costs, as defined in Section E1, for treatment works size band >175 Ml/d

Processing Rules: Input field.

Field Type: Input

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.38, E4.56

E4.37	Total number of works	nr	0dp

Data Definition: Total number of treatment works for all size bands.

Processing Rules: the sum of lines E4.28 to E4.36

Field Type: Calculated

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.39

E4.38	Proportion of distribution input - total	nr	

Data Definition: Total proportion of distribution input by all size bands.

Processing Rules: the sum of lines E4.28 to E4.36

Field Type: Calculated

Previous References:	**Ofwat 07**	-	**WICS 06**	E4.40

E4.39	Total operating costs	£m	3dp

Data Definition: The total direct costs and general and support costs, as defined in Section E1, for treatment works.

Processing Rules: the sum of lines E4.28 to E4.36

Field Type: Calculated

Previous References:

Ofwat 07	-	WICS 06	E4.58