

Section: E	Operating Costs and Efficiency		
Table: E8	Wastewater explanatory factors - sewage treatment works		
E8.1	Size band 0	nr	Odp
Data Definition:	The number of treatment works in each category should be entered in the appropriate column. Sea outfalls should be classified in the relevant column according to whether preliminary treatment or simple screening is provided.		
Processing Rule:	Column 'Total' is the sum of all inputs		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: - WICS 06 Ref: E8.1		
E8.2	Size band 1	nr	0dp
Data Definition:	The number of treatment works in each category sho appropriate column. Sea outfalls should be classified according to whether preliminary treatment or simple	in the relevant	column
Processing Rule:	Column 'Total' is the sum of all inputs		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: T17c, L1 WICS 06	Ref:	E8.2

E8.3	Size band 2	nr	0dp	
Data Definition:	The number of treatment works in each category should be entered in the appropriate column. Sea outfalls should be classified in the relevant column according to whether preliminary treatment or simple screening is provided.			
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17c, L2 WICS 06	Ref:	E8.3	
E8.4	Size band 3	nr	0dp	
Data Definition:	The number of treatment works in each category should be entered in the appropriate column. Sea outfalls should be classified in the relevant column according to whether preliminary treatment or simple screening is provided.			
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17c, L3 WICS 06	Ref:	E8.4	
E8.5	Size band 4	nr	0dp	
Data Definition:	The number of treatment works in each category sho appropriate column. Sea outfalls should be classified according to whether preliminary treatment or simple	in the relevant	column	
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17c, L4 WICS 06	Ref:	E8.5	

E8.6	Size band 5	nr	0dp
Data Definition:	The number of treatment works in each category should be entered in the appropriate column. Sea outfalls should be classified in the relevant column according to whether preliminary treatment or simple screening is provided.		
Processing Rule:	Column 'Total' is the sum of all inputs		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: T17c, L5 WICS 06 I	Ref:	E8.6
E8.7	Size band 6 (large works)	nr	0dp
Data Definition:	The number of treatment works in each category should be entered in the appropriate column. Sea outfalls should be classified in the relevant column according to whether preliminary treatment or simple screening is provided.		
Processing Rule:	Column 'Total' is the sum of all inputs		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: T17c, L6 WICS 06 I	Ref:	E8.7
E8.8	Total sewage treatment works	nr	0dp
Data Definition:	The total numbers of sewage treatment works and se providing each category of treatment.	a outfalls (all s	sizes)
Processing Rule:	Sum of E8.1 to E8.7		
Field Type:	Calculated		
Previous References:	Ofwat 07 Ref: T17c, L7 WICS 06 I	Ref:	E8.8

E8.9	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	nr	0dp
Data Definition:	The number of small sewage treatment works with ammonia consents of between 5 and 10mg/l (including 10mg/l). Note that these works must also be included in the appropriate categories in lines 1-5 above, to ensure that the total numbers of works are correct.		
Processing Rule:	Column 'Total' is the sum of all inputs		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: T17c, L8 WICS 06	Ref:	E8.9
E8.10	Small Sewage treatment works with ammonia consent <= 5 mg/l	nr	0dp
Data Definition:	The number of small sewage treatment works with ammonia consents of 5mg/l or less. Note that these works must also be included in the appropriate categories in lines 1-5 above, to ensure that the total numbers of works are correct.		
Processing Rule:	Column 'Total' is the sum of all inputs		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: T17c, L9 WICS 06	Ref:	E8.10
E8.11	Size band 0	kg BOD/day	Odp
Data Definition:	The average daily road received (in kg of BOD5/day) k (<=6kg BOD5/day) for each treatment category. The common definitions should be used to calculate t	convention ou	tlined under
Processing Rule:	Column 'Total' is the sum of all inputs		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: - WICS 06	Ref:	E8.11

E8.12	Size band 1	kg BOD/day	0dp	
Data Definition:	The average daily road received (in kg of BOD5/day) by STWs of size band 1 (6 - 15kg BOD5/day) for each treatment category. The convention outlined under the common definitions should be used to calculate the load for each STW.			
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17d, L1 WICS 06	Ref:	E8.12	
E8.13	Size band 2	kg BOD/day	Odp	
Data Definition:	The average daily road received (in kg of BOD5/day) k 30kg BOD5/day) for each treatment category. The cocommon definitions should be used to calculate the le	nvention outli	ned under the	
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17d, L2 WICS 06	Ref:	E8.13	
E8.14	Size band 3	kg BOD/day	Odp	
Data Definition:	The average daily road received (in kg of BOD5/day) k 120kg BOD5/day) for each treatment category. The common definitions should be used to calculate t	onvention out	lined under	
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17d, L3 WICS 06	Ref:	E8.14	

E8.15	Size band 4	kg BOD/day	0dp	
Data Definition:	The average daily road received (in kg of BOD5/day) by STWs of size band 4 (120-600kg BOD5/day) for each treatment category. The convention outlined under the common definitions should be used to calculate the load for each STW.			
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17d, L4 WICS 06	Ref:	E8.15	
E8.16	Size band 5	kg BOD/day	Odp	
Data Definition:	The average daily road received (in kg of BOD5/day) k 1500kg BOD5/day) for each treatment category. The the common definitions should be used to calculate t	convention ou	tlined under	
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17d, L5 WICS 06	Ref:	E8.16	
E8.17	Size Band 6 (large works)	kg BOD/day	0dp	
Data Definition:	The average daily road received (in kg of BOD5/day) k (>1500kg BOD5/day) for each treatment category. The under the common definitions should be used to calc	e convention	outlined	
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17d, L6 WICS 06	Ref:	E8.17	

E8.18	Total load received	kg BOD/day	0dp	
Data Definition:	The total of the average daily road received (in kg of BOD5/day) by each type of sewage treatment works (for all sizes). The figures reported here should be consistent with those reported in line A3.21, X 1000/365, for the report year (366 if report year is a leap year).			
Processing Rule:	The sum of lines E8.1 1 to E8.17.			
Field Type:	Calculated			
Previous References:	Ofwat 07 Ref: T17d, L7 WICS 06	Ref:	E8.18	
E8.19	Small sewage treatment works with ammonia consent 5 - 10 mg/l	kg BOD/day	0dp	
Data Definition:	The average daily load (in kg BOD5/day) received by sworks (those receiving <=1500 kg BOD5/day) with am less than (or equal to) 10mg/l but greater than 5mg/l.	ımonia consen		
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17d, L8 WICS 06	Ref:	E8.19	
E8.20	Small sewage treatment works with ammonia consent <= 5 mg/l	kg BOD/day	0dp	
Data Definition:	The average daily load (in kg BOD5/day) received by sworks (those receiving <=1500 kg BOD5/day) with amor less.	_		
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17d, L9 WICS 06	Ref:	E8.20	

E8.21	Size band 0	%	1dp
Data Definition:	The average percentage of compliance with discharge consents for STWs of size band 0 (<=6kg BOD5/day) for each treatment category. This should be calculated as the unweighted mean for works in each particular treatment category. The convention outlined under the common definitions should be used to calculate the STW size. Sea outfalls should include those discharging untreated sewage and sewage subject to preliminary treatment in the relevant column. The figure reported must be the compliance figures determined by the Scottish Environmental Protection Agency, not as interpreted by SW.		
Processing Rule:	Input field		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: - WICS 06	Ref:	E8.21
E8.22	Size band 1	%	1dp
Data Definition:	The average percentage of compliance with discharge consents for STWs of size band 1 (6-15kg BOD5/day) for each treatment category. This should be calculated as the unweighted mean for works in each particular treatment category. The convention outlined under the common definitions should be used to calculate the STW size. Sea outfalls should include those discharging untreated sewage and sewage subject to preliminary treatment in the relevant column. The figure reported must be the compliance figures determined by the Scottish Environmental Protection Agency, not as interpreted by SW.		
Processing Rule:	Input field		
Field Type:	Input		
Previous	Ofwat 07 Ref: - WICS 06	Ref·	F8.22

References:

E8.23	Size band 2	%	1dp	
Data Definition:	The average percentage of compliance with discharge consents for STWs of size band 2 (15-30kg BOD5/day) for each treatment category. This should be calculated as the unweighted mean for works in each particular treatment category. The convention outlined under the common definitions should be used to calculate the STW size. Sea outfalls should include those discharging untreated sewage and sewage			
	subject to preliminary treatment in the relevant colur	preliminary treatment in the relevant column. The figure reported ne compliance figures determined by the Scottish Environmental		
Processing Rule:	Input field			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: - WICS 06	Ref:	E8.23	
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E8.24	Size band 3	%	1dp	
Data Definition:	The average percentage of compliance with discharge consents for STWs of size band 3 (30-120kg BOD5/day) for each treatment category. This should be calculated as the unweighted mean for works in each particular treatment category. The convention outlined under the common definitions should be used to calculate the STW size.			
	Sea outfalls should include those discharging untreate subject to preliminary treatment in the relevant columnst be the compliance figures determined by the Sc Protection Agency, not as interpreted by SW.	nn. The figure	reported	
Processing Rule:	Input field			
Field Type:	Input			
Previous	Ofwat 07 Ref: - WICS 06	Ref:	F8.24	

References:

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E8.25	Size band 4	%	1dp	
Data Definition:	The average percentage of compliance with discharge	consonts for	STIME of size	
butu bejiintion.	The average percentage of compliance with discharge consents for STWs of size band 4 (120-600kg BOD5/day) for each treatment category. This should be calculated as the unweighted mean for works in each particular treatment category. The convention outlined under the common definitions should be used to calculate the STW size.			
	subject to preliminary treatment in the relevant colur	should include those discharging untreated sewage and sewage reliminary treatment in the relevant column. The figure reported compliance figures determined by the Scottish Environmental Agency, not as interpreted by SW.		
Processing Rule:	Input field			
Field Type:	Input			
Previous	Ofwat 07 Ref: - WICS 06	Ref:	E8.25	
References:				
E8.26	Size band 5	%	1dp	
Data Definition:	The average percentage of compliance with discharge consents for STWs of size band 5 (600-1500kg BOD5/day) for each treatment category. This should be calculated as the unweighted mean for works in each particular treatment category. The convention outlined under the common definitions should be used to calculate the STW size.			
	Sea outfalls should include those discharging untreate subject to preliminary treatment in the relevant colur must be the compliance figures determined by the Sc Protection Agency, not as interpreted by SW.	nn. The figure	reported	
Processing Rule:	Input field			
Field Type:	Input			
Previous	Ofwat 07 Ref: - WICS 06	Ref:	E8.26	

References:

E8.27	Size band 6 (large works)	%	1dp
Data Definition:	The average percentage of compliance with discharge consents for STWs of size band 6 (>1500kg BOD5/day) for each treatment category. This should be calculated as the unweighted mean for works in each particular treatment category. The convention outlined under the common definitions should be used to calculate the STW size. Sea outfalls should include those discharging untreated sewage and sewage subject to preliminary treatment in the relevant column. The figure reported must be the compliance figures determined by the Scottish Environmental		
Processing Rule:	Protection Agency, not as interpreted by SW. Input field		
Field Type:	Input		
Previous	Ofwat 07 Ref: - WICS 06	Ref:	E8.27
References:			
E8.28	Average compliance by works - all sizes	%	1dp
Data Definition:	The total average percentage of compliance with discharge consents for all STWs in each treatment category. This should be calculated as the unweighted mean of percentage compliance for all sizes of works of each particular treatment type. Sea outfalls should include those discharging untreated sewage and sewage subject to preliminary treatment in the relevant column. The figures reported must be the compliance figures determined by the Scottish Environmental		
	Protection Agency, not as interpreted by SW.	ottisii Eiivii oii	illelitai
Processing Rule:	Input field		
Field Type:	Input		

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WICS 06 Ref:

E8.28

E8.29	Small sewage treatment works with ammonia consent 5 - 10 mg/l	%	1dp		
Data Definition:	The average percentage of compliance with discharge consents for all types of small STWs (receiving <=1500kg by BOD5/day load) with ammonia (NH3) consents which are less than (or equal to) 10mg/l but greater than 5mg/l. This should be calculated as the unweighted mean of percentage compliance for all sizes of works of each particular treatment type.				
Processing Rule:	Input field				
Field Type:	Input				
Previous References:	Ofwat 07 Ref: - WICS 06	Ref:	E8.29		
E8.30	Small sewage treatment works with ammonia consent <= 5 mg/l	%	1dp		
Data Definition:	The average percentage of compliance with discharge consents for all types of small STWs (receiving <=1500kg by BOD5/day load) with ammonia (NH3) consents, which are less than (or equal to) 5mg/l. This should be calculated as the unweighted mean of percentage compliance for all sizes of works of each particular treatment type.				
Processing Rule:	Input field				
Field Type:	Input				
Previous References:	Ofwat 07 Ref: - WICS 06	Ref:	E8.30		
E8.31	Direct costs for works in size band 0	£000	3dp		
Data Definition:	The direct costs for works in size band 0. Direct costs Table M18WW.	are defined in	RAR 4 for		
Processing Rule:	Column 'Total' is the sum of all inputs				
Field Type:	Input				
Previous References:	Ofwat 07 Ref: - WICS 06	Ref:	E8.31		

E8.32	Direct costs for works in size band 1	£000	3dp		
Data Definition:	The direct costs for works in size band 1. Direct costs are defined in RAR 4 for Table M18WW.				
Processing Rule:	Column 'Total' is the sum of all inputs				
Field Type:	Input				
Previous References:	Ofwat 07 Ref: T17f, L1 WICS 06	Ref:	E8.32		
E8.33	Direct costs for works in size band 2	£000	3dp		
Data Definition:	The direct costs for works in size band 2. Direct costs Table M18WW.	are defined in	RAR 4 for		
Processing Rule:	Column 'Total' is the sum of all inputs				
Field Type:	Input				
Previous References:	Ofwat 07 Ref: T17f, L2 WICS 06	Ref:	E8.33		
E8.34	Direct costs for works in size band 3	£000	3dp		
Data Definition:	The direct costs for works in size band 3. Direct costs Table M18WW.	are defined in	RAR 4 for		
Processing Rule:	Column 'Total' is the sum of all inputs				
Field Type:	Input				
Previous References:	Ofwat 07 Ref: T17f, L3 WICS 06	Ref:	E8.34		

	Direct costs for works in size band 4		
E8.35	Direct costs for works in size band 4	£000	3dp
Data Definition:	The direct costs for works in size band 4. Direct costs Table M18WW.	are defined in	RAR 4 for
Processing Rule:	Column 'Total' is the sum of all inputs		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: T17f, L4 WICS 06	Ref:	E8.35
E8.36	Direct costs for works in size band 5	£000	3dp
Data Definition:	The direct costs for works in size band 5. Direct costs Table M18WW.	are defined in	RAR 4 for
Processing Rule:	Column 'Total' is the sum of all inputs		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: T17f, L5 WICS 06	Ref:	E8.36
E8.37	Direct costs for works in size band 6 (large works)	£000	3dp
Data Definition:	The direct costs for works in size band 6. Direct costs Table M18WW.	are defined in	RAR 4 for
Processing Rule:	Column 'Total' is the sum of all inputs		
Field Type:	Input		
Previous References:	Ofwat 07 Ref: T17f, L6 WICS 06	Ref:	E8.37

E8.38	Direct costs for all sewage treatment works	£000	3dp	
Data Definition:	The direct costs for all sewage treatment works. Direct costs are defined in RAR 4 for Table M18WW.			
Processing Rule:	The sum of lines E8.31 to E8.37			
Field Type:	Calculated			
Previous References:	Ofwat 07 Ref: T17f, L7 WICS 06	Ref:	E8.38	
E8.39	General and support expenditure	£000	3dp	
Data Definition:	The general and support expenditure allocated for all in RAR 4 for Table M18WW). Where possible, such exattributed on a causal basis; otherwise it should be apdirect costs.	penditure sho	uld be	
Processing Rule:	Column 'Total' is the sum of all inputs			
Field Type:	Input			
Previous References:	Ofwat 07 Ref: T17f, L12 WICS 06	Ref:	E8.39	
E8.40	Functional expenditure	£000	3dp	
Data Definition:	The sum of direct costs and general support expenditure for all sewage treatment works.			
Processing Rule:	The sum of E8.38 and E8.39			
Field Type:	Calculated			
Previous References:	Ofwat 07 Ref: T17f, L13 WICS 06	Ref:	E8.40	

Power costs E8.41 £000 3dp Data Definition: The total power cost for the STW included in the direct costs above. The power costs of terminal pumping may only be included if the costs of a terminal pumping station at the STW are included in M18WW, line M18WW.2 in the sewage treatment column. SW must clearly indicate whether or not such costs are included. **Processing** Column 'Total' is the sum of all inputs Rule: Field Type: Input **Previous** Ofwat 07 Ref: T17f, L10 WICS 06 Ref: E8.41 References: Service charges SEPA E8.42 £000 3dp Data Definition: The total Scottish Environmental Protection Agency service charges for the STW included in the direct costs above. Column 'Total' is the sum of all inputs **Processing** Rule:

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WICS 06 Ref:

E8.42

Field Type:

References:

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Input

Ofwat 07 Ref: