

Chapter 17c

Sewerage service explanatory factors

Covering:
Sewage treatment works: numbers

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Sewage treatment works: numbers

Guidance

The purpose of this table is to classify each company's sewage treatment works (STW) by size and by method of treatment.

For this table (and for tables 17d, and 17f), the size bands are defined as:

Small works

- size band 1 $\leq 15\text{kg BOD}_5/\text{day}$ (population equivalent: 0 - 250)
- size band 2 >15 but $\leq 30\text{kg BOD}_5/\text{day}$ (population equivalent: 250 - 500)
- size band 3 >30 but $\leq 120\text{kg BOD}_5/\text{day}$ (population equivalent: 500 – 2,000)
- size band 4 >120 but $\leq 600\text{kg BOD}_5/\text{day}$ (population equivalent: 2,000 – 10,000)
- size band 5 >600 but $\leq 1500\text{kg BOD}_5/\text{day}$ (population equivalent: 10,000 – 25,000)

Large works

- size band 6 $> 1500\text{kg BOD}_5/\text{day}$.

These bands may be abbreviated to 15 - 30kg BOD₅/day (etc.).

In calculating the size of each STW for this table (and for tables 17d and 17f), the company must assume a load of 60g/head/day arising from the resident connected population and add any trade effluent load (converted from settled to total (unsettled) COD), using a factor of 2:1 for converting COD:BOD. No allowance should be made for non-resident population (tourists, commuters), but the company may wish to comment if this is significant and would affect the banding of a works.

The company must check that the following data are consistent:

- Total number of STWs in table 17c (line 7, sum of column 1-7) should be consistent with number of sewage treatment works in table 15 (line 8). If they are not equal please provide an explanation in your commentary; and
- Number of STWs in each treatment category in table 17c (line 6, columns 1-7) should equal corresponding total number of STWs reported in table 17b (line 8).

The company must also check that:

- Where works have been reported in table 17c, corresponding costs are reported in table 17f; and
- Where works have been reported in table 17c, corresponding loads are reported in table 17d.

The company should also provide data relating to services provided by its PPP wastewater contractor operated works. These data should be included in both the existing table and the separate PPP table as indicated.

Company commentary

The company should:

- comment on any works where there is doubt about which band or treatment type applies; and
- check that the total number of STWs in table 17c (line 7, sum of column 1-7) should be consistent with number of sewage treatment works in table 15 (line 8); if they are not equal provide an explanation.

Guidance for Reporters

Reporters should highlight any works where there is doubt about its classification, comment on the reasonableness of the company's decision and outline any alternative classification. This is particularly important where there is any doubt over whether a works should be classed as a large sewage treatment works or if there is doubt over the classification of the treatment process.

Table 17c line definitions

A SMALL WORKS

1	Number of STWs in size band 1	nr	0dp
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.		
Primary Purpose	Informing relative performance and efficiency assessments.		
Processing rule	Input: line 1 column 1 to 10 Calculated: line 1 column 11 is the sum of line 1 column 1 to 10		
Responsibility	Comparative Efficiency & Performance Team		

2	Number of STWs in size band 2	nr	0dp
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.		
Primary Purpose	Informing relative performance and efficiency assessments.		
Processing rule	Input: line 2 column 1 to 10 Calculated: line 2 column 11 is the sum of line 2 column 1 to 10		
Responsibility	Comparative Efficiency & Performance Team		

3	Number of STWs in size band 3	nr	0dp
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.		
Primary Purpose	Informing relative performance and efficiency assessments.		
Processing rule	Input: line 3 column 1 to 10 Calculated: line 3 column 11 is the sum of line 3 column 1 to 10		
Responsibility	Comparative Efficiency & Performance Team		

4	Number of STWs in size band 4	nr	0dp
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.		
Primary Purpose	Informing relative performance and efficiency assessments.		
Processing rule	Input: line 4 column 1 to 10 Calculated: line 4 column 11 is the sum of line 4 column 1 to 10		
Responsibility	Comparative Efficiency & Performance Team		

5	Number of STWs in size band 5	nr	0dp
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.		
Primary Purpose	Informing relative performance and efficiency assessments.		
Processing rule	Input: line 5 column 1 to 10 Calculated: line 5 column 11 is the sum of line 5 column 1 to 10		
Responsibility	Comparative Efficiency & Performance Team		

B LARGE WORKS

6	Number of STWs in size band 6	nr	0dp
Definition	The number of treatment works in each category should be entered in the relevant column. Sea outfalls should be classified in the relevant column according to whether preliminary treatment or simple screening is provided. Where a works load is split into two treatment streams in table 17b, the works should be reported consistently with the classification in table 17b, line 8.		
Primary Purpose	Informing relative performance and efficiency assessments.		
Processing rule	Input: line 6 column 1 to 10 Calculated: line 6 column 11 is the sum of line 6 column 1 to 10		
Responsibility	Comparative Efficiency & Performance Team		

7	Total number of STWs	nr	0dp
Definition	Total numbers of sewage treatment works and sea outfalls (all sizes) providing each category of treatment.		
Primary Purpose	Informing relative performance and efficiency assessments.		
Processing rule	Calculated field: each column in line 7 is the sum of lines 1 to 6.		
Responsibility	Comparative Efficiency & Performance Team		

C SMALL WORKS WITH AMMONIA CONSENTS

8	Nr of small STWs with NH ₃ consents (5 - 10 mg/l)	nr	0dp
Definition	The number of small sewage treatment works with ammonia consents of between 5 and 10mg/l (including 10 mg/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.		
Primary Purpose	Informing relative performance and efficiency assessments.		
Processing rule	Input		
Responsibility	Comparative Efficiency & Performance Team		

9	Nr of small STWs with NH ₃ consents (<= 5mg/l)	nr	0dp
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.		
Primary Purpose	Informing relative performance and efficiency assessments.		
Processing rule	Input		
Responsibility	Comparative Efficiency & Performance Team		

CHANGE CONTROL SHEET
CHAPTER 17c

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