

Chapter 17g Sewerage service explanatory factors

Covering: Sludge treatment and disposal



Chapter 17g Sludge treatment and disposal

Guidance

One table has been provided for NIW data only. The PPP data should be reported in Table 42.

The purpose of this table is to collect information about sewage sludge disposal routes, and the costs of sludge treatment and disposal associated with each of those routes.

This information will be used to update our modelling of the sewerage service to enable assessment of the comparative operating efficiency of the company's sewerage services.

Process losses, such as gas lost to the atmosphere, are included in the percentages entering each disposal route and must not be assigned to the 'Other' category.

The routes are classified as:

Farmland – Untreated: Spreading untreated sewage sludge direct to farmland

Farmland - Conventional: Spreading conventionally treated sewage sludge to farmland

Farmland – Advanced: Spreading "advanced" treated sewage sludge to farmland

Incineration: Sewage sludge disposed of by incineration

To PPP Sewage sludge disposed of by PPP contractor

Landfill: Sewage sludge disposed in landfill sites

Composted: Sewage sludge disposed by means of composting

Land Reclamation: Sewage sludge disposed of to land reclamation projects

Other: Any other form of sewage sludge disposal; for example,

gasification, forestry, or silviculture.

Disposal to farmland includes sludge spread on non-food crops.

Un-adopted septic tank activities

For the purposes of this table and the AIR, un-adopted septic tank activities are unregulated and should therefore be excluded. Adopted tank activity (i.e. Housing Executive tanks) should still be accounted for in the tables. Within the table commentary NIW must provide:

- The total excluded cost associated with this unregulated activity;
- A breakdown of this total figure by collection, treatment and disposal costs;
- A commentary on how these costs were arrived at and any assumption made
- The number of unregulated septic tanks collected from within the reporting year;
- The total load (ttds) collected from unregulated septic tanks



The company must check that the following data are consistent.

- Amount of sewage sludge disposed of in table 17g (line 2, column 10) should equal total sewage sludge disposed of in table 15 (line 16);
- Sludge treatment and disposal: direct costs in table 17g (line 5, column 10) should equal total direct costs for sludge treatment & disposal in table 22 (line 9, column 3);
- Sludge treatment and disposal: power costs in table 17g (line 6, column 10) should equal power costs for sludge treatment & disposal in table 22 (line 2, column 3);
- Sludge treatment and disposal: Service charges in table 17g (line 7, column 10) should equal service charges for sludge treatment & disposal in table 22 (line 7, column 3); and
- Sludge treatment and disposal: general and support expenditure in table 17g (line 8, column 10) should equal general and support expenditure for sludge treatment & disposal in table 22 (line 10, column 3);
- Sludge treatment and disposal: functional expenditure in table 17g (line 9, column 10) should equal functional expenditure for sludge treatment and disposal in table 22 (line 11, column 3).

Company commentary

The company should:

- clearly explain any significant changes in sludge disposal routes that have occurred since this information was last collected;
- provide a clear explanation of any sludge disposal methods that are classed as 'Other'. In accordance with RAG4.03, the cost of mechanical sludge de-watering and sludge transfers to sewers and other works must be included in this table;
- comment on the reasons for any significant increases in the costs associated with a particular disposal route. For the purposes of this table, significant changes are those which amount to more than 5% of total sludge treatment and disposal costs, or more than 10% of any individual category; and,
- only report the amount of sludge treated during the report year. This may not be the same
 as the amount of sludge disposed in the year. The company should explain any large
 movements between stockpiled and disposed stock.

Guidance for Reporter

The Reporter should comment on:

- the accuracy of the reported information;
- the reasonableness of any changes in the company's costs for different disposal routes since this information was last available;
- the reasonableness of assumptions made in separating out unregulated septic tank costs.



Table 17g line definitions

1	Resident population served	000	1dp
Definition	The resident population contributing to the particular disposal route. Sludge disposal routes are as defined beginning of this chapter. The population equivalent rused in place of the resident population.	at the	t be
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 1 column 1 to column 9 Calculated: line 1 column 10 is the sum of line 1 column	mn 1 to	9.
Responsibility	Comparative Efficiency and Performance Team		_

2	Amount of sewage sludge	ttds	1dp
Definition	The amount of sewage sludge (including grit and screen thousand tonnes of dry solids (ttds) which is disposed each of the routes listed. The total for this line should table 15 line 16.	of thro	ugh
	The company must submit the amount entering (not I treatment and disposal process for each of the routes Process losses, such as gas lost to the atmosphere, included in the amount entering each disposal route a be assigned to the 'Other' category.	listed. are ther	efore
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 2 column 1 to column 9 Calculated: line 2 column 10 is the sum of line 2 column	mn 1 to	9.
Responsibility	Comparative Efficiency and Performance Team		

3	Sludge treatment: direct costs	£000	3dp
Definition	The direct costs attributable to sludge treatment for e disposal routes. Column 10 'total' is the direct cost of treatment for all disposal routes.		he
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 3 column 1 to column 9 Calculated: line 3 column 10 is the sum of line 3 column	mn 1 to	9.
Responsibility	Comparative Efficiency and Performance Team		

4	Sludge disposal: direct costs	£000	3dp
Definition	The total sludge disposal direct costs attributable to edisposal routes.	ach of t	he
	Column 10 'total' is the direct cost of sludge disposal disposal routes.	for all	
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 4 column 1 to column 9		
	Calculated: line 4 column 10 is the sum of line 1 colu	mn 1 to	9.
Responsibility	Comparative Efficiency and Performance Team		

5 Sludge treatment & disposal: direct costs	£000	3dp
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Definition	The direct costs attributable to sludge treatment and disposal for each of the disposal routes. Column 10 is the total direct cost of sludge treatment and disposal for all routes. This total should reconcile with table 22 line 9 column 3.
Primary Purpose	Informing relative performance and efficiency assessments.
Processing rule	Calculated: for each column line 5 is the sum of line 3 and line 4.
Responsibility	Comparative Efficiency and Performance Team

6	Sludge treatment & disposal: power costs	£000	3dp
Definition	The sludge treatment and disposal power costs for earlisposal routes. Column 10 is the power cost for slud and disposal for all disposal routes and should recond 22 line 2 column 3.	ge treat	ment
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 6 column 1 to column 9		
	Calculated: line 6 column 10 is the sum of line 6 colu	mn 1 to	9.
Responsibility	Comparative Efficiency and Performance Team		

7	Sludge treatment & disposal: service charges	£000	3dp
Definition	The service charges for sludge treatment and disposal for each of		
	the disposal routes including regulation and legal cos		
	10 is the total service charge for all disposal routes. T	his tota	I
	should reconcile with table 22 line 7 column 3.		
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 7 column 1 to column 9		
	Calculated: line 7 column 10 is the sum of line 7 colu	mn 1 to	9.
Responsibility	Comparative Efficiency and Performance Team	•	•

8	Sludge treatment & disposal: general & support exp.	£000	3dp
Definition	The general and support expenditure for sludge treat disposal allocated to each of the disposal routes. Col total general and support expenditure for all disposal total should reconcile with table 22 line 10 column 3.	umn 10	is the
Primary Purpose	Informing relative performance and efficiency assess	ments.	
Processing rule	Input: line 8 column 1 to column 9 Calculated: line 8 column 10 is the sum of line 8 column	mn 1 to	9.
Responsibility	Comparative Efficiency and Performance Team		

9	Sludge treatment & disposal: functional expenditure	£000	3dp
Definition	The sum of direct costs and general support expenditus sludge treatment and disposal. The total for this line sludge with table 22 line 11 column 3.		·
Primary Purpose	Informing relative performance and efficiency assessments.		
Processing rule	Calculated: for each column line 10 is the sum of line 5 and line 8.		
Responsibility	sponsibility Comparative Efficiency and Performance Team		



CHANGE CONTROL SHEET CHAPTER 17g

2008/1.0	First issue of chapter for the SBP period
2009/1.0	Second issue of chapter for the SBP period
	- processing rule for line 3 amended
	- Additional table added for PPP and Total data
2010/1.0	Third issue of chapter for the SBP period
	- Minor revisions to line guidance
	- The PPP and Total tables have been removed. The PPP is to be
	reported in Table 42
2011/1.0	First issue of chapter for the PC10 period
	- No changes