

Release to sewer - Assessment Details

Version 8 May 2015

Name of premises

Reference

Where does effluent discharge from STW go?:

To a brook?

To a river direct from STW or via a brook?

To estuary/coast direct from STW or via a brook or river?

Data entry:

Average brook flow rate m³/s

Average river flow rate m³/s

Sewage works

Average raw sewage flow rate m³/day

Coastal Location

Average coastal/estuary exchange rate m³/s

Population group

- STW worker dose at STW
- Farming family dose (sewage sludge to land)
- Child playing in brook
- Angler dose (river)
- Irrigated food consumer dose (river water)
- Fisherman dose (estuary/coastal)

Total dose	
4,54	μSv/y
0,29	μSv/y
#DIV/0!	μSv/y
#DIV/0!	μSv/y
#DIV/0!	μSv/y
91,18	μSv/y

Food Dose	
2,1E-01	μSv/y
#DIV/0!	μSv/y
#DIV/0!	μSv/y
9,1E+01	μSv/y

Worst μSv/y μSv/y

FSA consultation required for non-nuclear permit?

Wildlife Group

- River wildlife - Worst affected μGy/h
- Estuary wildlife - Worst affected μGy/h

	Name	Signature	Date
Assessed by	<input type="text" value="Tanja Holter"/>	<input type="text"/>	<input type="text" value="23.04.2020"/>

Reviewed by	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Guidance

1. The spreadsheet is colour coded as follows:

- Row and column headings
- Data entry by user
- Data provided in spreadsheet
- Results and interim calculations

2. Assessment Details - Enter the relevant data on this sheet. You should answer the questions relating to the route of the treated effluent as this will ensure that doses are only calculated for the appropriate population groups. You may enter the average brook flow rate, river flow rate, raw sewage flow rate and estuary/coastal water exchange rate. Default values are provided if the information is not available.

3. Releases to sewer - Enter the limits for each radionuclide on this sheet. You may need to select surrogate radionuclides or use the other alpha and

other beta gamma categories.

4. Summary total dose - The results are displayed on this page along with the percentage contribution from each nuclide.

5. STW worker dose, farming family dose, child in brook dose, angler dose, irrig food dose and fisherman dose - The dose contribution from each exposure pathway for these population groups are shown.