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Public Consultation on the Evaluation of the Urban Waste Water Treatment Directive (91/271/EEC)

Fields marked with * are mandatory.

Introduction

Introduction to waste water in general

In Europe, we use on average 200 litres of water per person per day. Waste water is produced as sewage from households, tourism, industries and workplaces. Before waste water is discharged into the environment, it is usually collected in sewers and then treated in waste water treatment plants or equivalents to take out harmful substances, as required by the existing EU law. Waste water can contain different types of substances and pollutants, which can cause problems in the environment (such as rivers to which the waste water is discharged and other interlinked water bodies). These pollutants can also affect human health as people come into contact with the water, for instance, through bathing.

In 1991, the European Union adopted the Urban Waste Water Treatment Directive (91/271/EEC) to help improve the management of waste water from households and specific industries (see Annex III of the Directive) across Europe. This law sets out legal obligations to ensure waste water is collected and appropriately treated before being discharged.

It has been 27 years since the Urban Waste Water Treatment Directive was adopted and the European Commission has decided to conduct an evaluation. Essentially the evaluation aims to see whether the law is doing what it is meant to do, whether its objectives are still relevant today, and whether the costs arising from the requirements of the law are justified.

Since 1991, there has been new EU law on water. For example, in 2000 the Water Framework Directive was adopted, and the law on bathing waters and drinking water has also been revised. There have also been technical advances on treatment techniques for waste water, and emerging pollutants have been identified that might require removal. Also, since 1991 the EU has been enlarged from 12 to 28 countries, increasing the total amount of waste water to be collected and treated, and presenting different experiences and challenges in the new Member States (e.g. in Scandinavia, Central and Eastern Europe and the Mediterranean islands).

For more information about waste water management in Europe, please check out these websites:

The European Commission's website about the Urban Waste Water Treatment Directive: http://ec.europa.eu/environment/water/water-urbanwaste/index_en.html

The European Environment Agency's interactive map where you can check out the situation in your country and individual waste water treatment plants: https://www.eea.europa.eu/themes/water/water-pollution/uwwtd/interactive-maps/urban-waste-water-treatment-maps

Links to various national sources of information: https://www.eea.europa.eu/themes/water-water-pollution/ /uwwtd/links-to-national-water-waste

Introduction to this consultation

The purpose of this consultation is to understand the views of the public on waste water and how it is managed. The consultation is sub-divided into three parts.

Part I: The first part asks for some information about you (such as which country you come from).

Part II: The second part is addressed to the general public. You do not need any specialist knowledge on the law or on waste water treatment to reply to this.

Part III: The third part is addressed to experts and contains more detailed and technical questions.

All of the responses to this consultation will be fully assessed and the overall results will be included in the analysis supporting the evaluation of the Urban Waste Water Treatment Directive. We will also produce a stand-alone summary of the results of the consultation (to be published here).

If you have any questions, please contact either the European Commission via ENV-URBAN-WASTE-WATER@ec.europa.eu or the project team supporting the Commission's work (UWWTDEVAL@woodplc.com).

Your voice matters and we are grateful to you for taking the time to complete this consultation.

Questionnaire

Part I - Introductory questions

Public authority (national level)

Public Authority (agency)

*I an	replying to this questionnaire as a (representative of, where not a private citizen):
	Private citizen
	Waste Water Treatment Plant operator or association (public)
	Waste Water Treatment Plant operator or association (private)
	Other company or business
	Other private (including trade) association
	Other public association
	Non-governmental organisation (NGO)
	Public authority (municipal level)
	Public authority (regional level)

Academic/ research institute	
Other (specify below)	
In which country do you live most of the year, or is your organisation based?	
Please indicate "EU" if representing organisations from across the EU or operating in severa	al EU countries)
Sweden	
•	
Please provide your full name or the name of the organisation that you are representi	ing:
1500 character(s) maximum	
Stockholm University Baltic Sea Centre	
If you represent an organisation, is it registered in the EU Transparency Register?	
O No	
O I do not know	
*If yes, what is the EU Transparency Register ID number?	
514687319814-91	
In the interests of transparency, organisations, networks, platforms or self-employed indiving activities aimed at influencing the EU decision making process have been invited to provide with relevant information about themselves, by registering in Transparency Register and surface Code of Conduct.	vide the public
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Please find on the homepage of this survey the specific privacy statement regarding how your personal data is protected. Please note that regardless of the option chosen your answers may be subject to a request for public access to documents under Regulation (EC) No 1049 /2001. In such cases, the request will be assessed against the conditions set out in the Regulation and in accordance with applicable data protection rules.

Respondents should not include personal data in documents submitted in the context of the consultation if they opt for anonymous publication.

- I give permission for my contribution to be published with my personal information: I consent the publication of all information in my contribution in whole or in part including my name or my organisation's name, and I declare that nothing within my response is unlawful or would infringe the rights of any third party in a manner that would prevent publication.
- My contribution can be published provided that I remain anonymous: I consent to the publication of any information in my contribution in whole or in part (which may include quotes or opinions I express) provided that it is done anonymously. I declare that nothing within my response is unlawful or would infringe the rights of any third party in a manner that would prevent publication.

Part II – General public questionnaire

All of the questions in this part of the consultation are multiple-choice questions. However, there is also the opportunity to make more in-depth comments or provide additional information in response to the last question if you wish.

Your understanding of water, waste water and your relationship with it

We interact with water every day. We drink water, use water in our daily life and we produce waste water. Many of us also enjoy swimming in lakes, rivers or the sea. To enjoy a clean environment and clean waters, it is important that our waste waters are treated before being discharged. These first questions seek to get an appreciation of how you understand your relationship with water, to understand your knowledge on how waste water in your area is being collected and treated, and if you think this is important.

Which of the following do you think are the main sources of pollution to rivers, lakes, and the sea, please provide us a ranking:

	1 - Main source	2- Not so much a source	3- Not a source	l do not know
Households (e.g. waste water from kitchens, bathrooms, etc.)	0	0	0	0
Agriculture (e.g. run-off from fields leading to pesticides, nutrients and manure entering the sewage system)	0	0	0	0
Industrial sources (e.g. waste water discharges from manufacturing activities etc.)	0	0	0	0
Urban sources (e.g. waste from the streets such as microplastics from the abrasion of tyres)	0	0	0	0

If you think there are other important sources, that are not mentioned above, please comment here:

Do you know how waste water is treated (cl	eaned) in your a	area?		
Yes				
I have some idea				
O No				
I am not interested in this.				
Do you know who treats your waste water?				
A public company				
A private/public company				
A private company				
I have my own individual treatment plant.				
I am not interested in this.				
I do not know				
Do you think that waste water is adequately	treated in your	area?		
O Yes				
To some extent				
O No				
I do not know				
I am not interested in this.				
Which of the following are according to you	the benefits of	treating waste	water before	e
discharging it into the environment?				
	To a large	To some	To no	I do no
	extent	extent	extent	know
5				

1500 character(s) maximum

	To a large extent	To some extent	To no extent	I do not know
Protection of the environment including wildlife	0	0	0	0
Clean rivers	©	©	0	0
Clean seas	0	0	0	0
Clean bathing areas useable for recreation purposes	0	0	0	0
Clean drinking water	0	©	0	0
Health benefits	0	0	0	0
Reduction of odour	0	0	0	0
Removal of pollutants	0	0	0	0

(if any) to the costs that you pay for water services that partially cover the treatment of wastewater. Do you think that:
the costs outweigh the benefits.
the costs and benefits are about the same.
the benefits outweigh the costs.
O I do not know
Are you familiar with the EU Urban Waste Water Treatment Directive?
I am not familiar with the Directive
I am slightly familiar with the Directive
I am very familiar with the Directive
Do you think that EU law on waste water has contributed to the rivers and lakes in your area being less polluted than they were in the past?
Yes
To some extent
The quality has stayed the same.
No
O I do not know
Collection of waste water
Many households in Europe are connected to sewers that collect waste water, which is then piped to treatment works. Some households, however, have their own systems, such as septic tanks. The questions in this section ask about your connection with the sewage system. Please only answer the questions which apply to you.
Is your household connected to the public waste water collecting system? Yes No I do not know Other
Treatment requirements, information to the public and perception of costs

Take a moment to compare the benefits of clean rivers, lakes, and the sea you have experienced

Tr

EU law requires different types of waste water treatment. This depends on the size of the population being served by the treatment works, and whether or not the treated waters are discharged into waters that are particularly sensitive to pollution. Treatment includes removal of solid waste items, organic matter (e.g. faeces) and nutrients such as nitrogen and phosphorus, which can negatively affect rivers, lakes and coastal waters.

To have this treatment, water collection and treatment systems have to be built, maintained and operated,

and therefore also to be paid for, including by the users (even if they do not pay the total cost). There are different ways this can be done. For example, households may be charged through water bills or the costs may be included in local taxation or charges.

Information to the public can help create an understanding about the costs of waste water collection, treatment and its management as well as its impact on people and the environment.

The following questions ask for your views about the adequacy of current treatment practices, your current level of information as well as your perception of the costs related to them.

Are you concerned that one or several of the following substances can be found in treated waste water?

	1- Not at all concerned	2	3	4	5- Very strongly concerned	l do not know
Pharmaceuticals (e.g. those excreted when you take medicines)	0	0	0	0	0	0
Other household waste (e.g. oil, paint, other household chemicals)	0	0	0	0	0	0
Micro plastics (e.g. fibres released from clothes during washing or particles from worn tyres)	0	0	0	0	0	0
Endocrine disruptors (i.e. substances that contain hormones that affect the development and function of animals and humans)	0	0	0	0	0	0
Pesticides (e.g. from using herbicides on your property)	0	0	0	0	0	0
Pollutants from industrial installations	0	0	0	0	0	0
Other	0	0	0	0	0	0

If you are concerned about one of the above, to what extent would you accept that the additional treatment that might be required to remove these substances may lead to a price increase in your water services bill?

	Absolutely acceptable
0	Acceptable if the increase in costs is limited.
	The initial polluter (e.g. industry) should pay for the removal of the pollution.
0	Not acceptable
	I do not know

If you wish to comment on the previous question, please do so here:

1.	1500 character(s) maximum		

Do you think that you have sufficient information on the following topics?

	Yes, I have sufficient information	No, but I am interested in this kind of information	No, and I am not interested in this kind of information
Information on how my waste water is treated	0	0	0
Information on where my waste water is treated	0	0	0
Information on who is treating my waste water	©	0	0
Information on where my waste water is discharged	0	0	0
Information on the costs for treating my waste water	©	0	0
Information on my costs in comparison to other households in the area	©	0	0
Information on how the costs are calculated	©	0	0
Information on investments in the treatment and sewer system in my area	0	0	0
Information on how waste water discharges affect rivers, lakes, seas or the general environment in my area	0	0	•

The value of having EU law on waste water

The EU Directive is one possible way to address waste water collection and treatment. Another option would be for each Member State to adopt their own law on this issue without an EU legislative framework. When evaluating EU law it is important to check that it adds value to what could be achieved by Member States acting on their own. The following questions explore your views on this.

Do you believe that the improvements since 1991 in waste water collection and treatment, including the construction of related infrastructure, would have happened in your country, region or city without the EU law?

Yes, they were already in	place before the EU legislation.

- Yes, they would have happened anyway.
- Yes, they would have happened anyway, but more slowly.
- Yes, they would have happened anyway but to a lesser extent.
- No, they would not have happened without EU legislation.
- I do not know

Do you think there is still a need for EU law to regulate the collection and treatment of waste water with the objective of protecting the environment?

Ye	s

 Only for some aspects (i.e. protection of transboundary waters, achieving high standards across EU for the protection of the environment, sharing practices)

O No

I do not know

Conclusion

Thank you for spending time completing this questionnaire. Your answers are valuable in helping to understand people's views on this issue.

If you wish to expand on any of your answers or to add comments or information on other aspects relevant to the collection and treatment of waste water in Europe, please do so in the box below.

150	00 character(s) maximum		

If you would like to submit your replies to the questionnaire at this stage, please go to the end of the expert part and click on the "submit" button. You do not need to fill in the questions in that part.

Part III - Expert stakeholder questionnaire

Introduction to the expert questionnaire

The specific requirements of the Directive are:

- To collect and treat waste water from all agglomerations of more than 2,000 population equivalents (p.e.).
- To apply secondary treatment, addressed to remove organic pollution from all discharges from agglomerations of more than 2,000 p.e., or of more than 10,000 p.e. if they discharge in coastal waters or estuaries.
- To apply more advanced treatment (removal of nutrients or other types such as disinfection) for agglomerations of more than 10,000 p.e. in designated sensitive areas (e.g. where waters are at risk of receiving too high nutrient loads, bathing waters etc.).
- If it is economically infeasible or the establishment of a collecting system does not result in an environmental benefit, individual systems or other appropriate systems which reach a similar level of environmental protection, may be used.
- A requirement for authorisation of all discharges of urban wastewater (such as a permit or license), of discharges from the food-processing industry, and of industrial discharges into urban wastewater collecting systems.
- Storm water overflows: Member States can decide on measures to limit pollution from storm water overflows. These measures can be based on dilution rates or capacity in relation to dry weather flow, or can be to specify a certain number of acceptable overflows per year.

Re-use of sewage sludge and treated waste water re-use is allowed whenever appropriate.

All significant EU law and policy is subject to evaluation. Evaluation is an analysis of whether the policy is still fit for purpose and still meets today's challenges. The evaluation is structured around five themes:

- Effectiveness: Has the Directive achieved what it set out to do? If not, why not?
- **Efficiency**: What are the costs and benefits of implementing the Directive? Are the costs justified? Are the particular requirements cost-effective compared to alternatives?
- **Coherence**: Are the requirements of the Directive consistent with those of other policies? Does any inconsistency cause practical problems?
- Relevance: Are the objectives and the way the Directive seeks to deliver these still correct today? Has technology moved on? Are there better solutions available?
- **EU Added Value**: What would have been the outcome without having an EU Directive? What is the justification for having EU law on this issue?

Effectiveness

The analysis of the Directive's effectiveness focuses on whether the main and specific objectives of the law have been reached, in this case, the protection of the environment from urban waste water discharges.

To what extent has the implementation of the UWWTD been effective in achieving the following objectives?

	Very effective	Somewhat effective	Neither effective nor ineffective	Somewhat ineffective	Very ineffective	do not know
Protecting the environment from adverse effects of urban waste water discharges	0	0	0	0	0	0
Protecting human health from adverse effects of urban waste water discharges	0	0	0	0	0	0
Protecting the environment from adverse effects of waste water discharges from certain industrial sectors	0	0	0	0	0	0
Protecting human health from adverse effects of waste water discharges from certain industrial sectors	0	0	0	0	0	0
Promoting continuous improvement of environmental performance of echniques used for urban waste water treatment	0	0	0	0	0	0
Collecting waste waters	0	0	0	0	0	0
Reducing biological oxygen demand (BOD5)	0	0	0	0	0	0
Reducing chemical oxygen demand (COD)	0	0	0	0	0	0
Removal of Phosphorus	0	0	0	0	0	0
Removal of Nitrogen	0	0	©	0	0	0
Ensuring designation of sensitive areas	0	0	0	0	0	0
Ensuring a proper application of IAS (Individual or other Appropriate System)	0	0	0	0	0	0
Ensuring a proper use of CSO (Combined Sewer Overflow)	0	0	0	0	0	0

Achieving an adequate reporting of the implementation programmes	0	0	©	0	0	0
Achieving an adequate management of the implementation programmes	0	0	0	0	0	0

To the best of your knowledge, are all the requirements of the Directive effectively implemented and enforced?
© Yes
O No
I do not know
As far as you are aware, does the implementation of the UWWTD vary across Member States or
regions?
(e.g. Does it vary within your country or between neighbouring countries/other countries that you know of?)
© Yes
O No
I do not know
In general, do you think that the Directive's requirements are:
Too ambitious
Very ambitious
Ambitious
Somewhat ambitious
Not ambitious enough
I do not know
In the following we would like to ask you to rate the barriers to full implementation of the Directive. Please firstly indicate the level at which you would like to rate the barriers: EU level Member State level Local level
Which of the following elements contributed to the achievement of the objectives of the Directive?
Please specify to what extent they had an impact on achieving the objectives.

	Adverse impact	No impact	Some impact	High impact	l do not know
Clarity with regards to the scope of the Directive (e.g. population thresholds, type of pollutants)	©	0	0	0	0
Clarity with regards to the overall requirements of the Directive to collect waste water	0	0	0	0	0
Clarity with regards to the overall requirements of the Directive to treat waste water	0	0	0	0	0
Clarity with regards to the overall reporting requirements by Member States to the European Commission	0	0	0	0	0

Clarity with regards to specific pollutants					
controlled by the Directive and related thresholds (BOD5, COD, TSS, Phosphorus and Nitrogen)	0	0	0	0	0
Clarity with regards to the provision related to individual or other appropriate systems	0	0	0	0	0
Clarity with regards to the provisions related to storm water overflows	0	0	0	0	0
Clarity with regards to provisions related to small agglomerations	0	0	0	0	0
Clarity with regards to the provisions related to sensitive areas (e.g. on designation)	0	0	0	0	0
Clarity with regards to the provisions related to providing information to the public	0	0	0	0	0
The European Commission's approach to infringements by Member States	0	0	0	0	0
The European Union's support to implement the directive (e.g. funding)	0	0	0	0	0
Other elements	0	0	0	0	0
ou would like to comment on one of the above,	please do s	so here:			
		so here:			
00 character(s) maximum		so here:			
you have any information on storm water overflow Yes No It is the frequency of overflows in your area? At every storm (monthly or more frequent) At every major storm (less than 5 times/ year) Exceptional (once or twice a year) I do not have this information	ows?		ıal enill e	vente and	if eo
you have any information on storm water overflow Yes No It is the frequency of overflows in your area? At every storm (monthly or more frequent) At every major storm (less than 5 times/ year) Exceptional (once or twice a year)	ows? uish betwe	en individu	-		

	hat is the share of combined versu	us separa	ate sewer network	s in your re	egion/municipality	
	ountry? ease indicate (xx% combined sewer	and xx%	separate sewer) as	s well as the	name of your region	า
	unicipality/country:				, ,	
15	500 character(s) maximum					
Wh	hat is the typical design dilution ra	ate hefor	a overflow?			
	ease indicate:	ALC DOTOIL	overnow.			
15	500 character(s) maximum					
The	ne dilution rate is defined by the typical flow the by. For instance, in a combined sewer with a wow above which overflow occurs during storms	vastewater c	discharge of 100 l/s [liter	rs per second] c	luring dry weather, and a	
L						
_	you have any data on overflow fr	equencie	es and volumes?			
	O Yes					
	YesNo					
	_					
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I do not have this information

Lower costs than expected	0	0	0	0	0
Incentivised research and development for waste water treatment	©	•	•	0	0
Increase in skills of workers dealing with waste water management	©	0	0	0	©
Strong development of the water sector due to the directive	0	0	0	0	0
Other positive unintended consequences	0	0	0	0	0

Negative unintended consequences

	have /has occured	have/has occured to a certain extent	have /has not occured	are/is not an unintended consequences	l do not know
Higher costs than expected	0	0	0	©	0
Inappropriate investment (e.g. investments in too small or too large treatment plants)	0	0	0	0	0
Increased amounts of pollutants in sludge	0	0	0	0	0
Decreased nutrient content of sludge	0	0	0	0	0
Discouragement of continuous technical improvements	0	0	0	0	0
Other negative unintended consequences	0	0	0	0	0

Efficiency

Are you aware of any annual average estimates for the following cost categories of complying with the Directive? These might be costs at water treatment plant level, regional level or country level. Note that we understand some activities are more relevant to operators and some to regulators, so please respond where you can.

Costs in relation to the Urban Waste Water Treatment Directive:

	Costs (please indicate the currency)	Source of information (if available)	Level of the information (WWTP, municipal, regional, national)
Capital expenditure (e.g. building infrastructure for			,
collection and treatment plants)			
Maintenance cost of infrastructure (e.g. renewal of			
infrastructures)			
Operating costs (e.g. personnel)			
Administrative costs (e.g. keeping records, reporting to			
competent authorities)			
Costs of monitoring, reporting performance / compliance			
to Member State authorities			
Costs of enforcing the requirements of the law (e.g.			
inspection, reporting to the European Commission)			
Costs for providing information to the public			

If you have other information on costs or general comments, please do not hesitate to contact us via ENV-URBAN-WASTE-WATER@ec.europa.eu or fill in the box:
1500 character(s) maximum

Please rate the following scale of (indirect) benefits from the implementation of the Directive:

	0 - adverse impact	1 – no benefit	2 – Little benefit	3 – Some benefit	4 - important benefit	5 – very important benefit	I do not know
Overall reduction of emissions of organic pollution to the groundwater	0	0	0	0	0	0	0
Overall reduction of emissions of organic pollution to surface water	0	0	0	0	0	0	0
Reduction of nutrients causing eutrophication	0	0	0	0	0	0	0
Reduced emissions of industrial pollution to water bodies	0	0	0	0	0	0	0
Reduction of microbiological pollution	0	0	0	0	0	0	0
Reduction of public health problems (e.g. incidents of illness)	0	0	0	0	0	0	0
Improvements in water status (good chemical status)	0	0	0	0	0	0	0
Improvements in water status (good ecological status)	0	0	0	0	•	0	0
Improvements in water status (good ecological status)	0	0	0	0	0	0	0
Improvements in biodiversity in receiving waters	0	0	0	0	0	0	0
Improved knowledge and subsequent remedial actions from monitoring and reporting	0	0	0	0	0	0	0
Improved public information on the national approach to urban waste water	0	0	0	0	0	0	0
Improvement of the recreational values of recipient waters (e.g. fishing opportunities, clean bathing waters)	0	0	0	0	0	0	0
Contributing to functioning ecosystem services (e.g. provisioning of clean water, supporting nutrient cycles, recreational benefits)	0	0	0	0	0	0	0
clean water, supporting nutrient cycles, recreational benefits)	0	0	0	0		© 	

Improved availability and quality of treated water for water reuse purposes	0	0	0	0	0	0	0
Improved availability of nutrients through re-cycling of sludge	0	0	0	0	0	0	©
Improved public sanitation and quality of life	0	0	0	0	0	0	©
Improved economic growth and creation of jobs	0	0	0	0	0	0	©
Other benefits	0	0	0	0	0	0	0

To what extent do you agree with the following statements on the justification of costs and benefits of this Directive requiring, amongst others, collection systems and adequate treatment?

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	l do not know
The costs involved in relation to the Directive are justified given the benefits that have already been achieved	•	0	•	•	•	•
The costs involved in relation to the Directive are justified given the benefits that will be achieved in the short term	0	0	•	•	©	0
The costs involved in relation to the Directive are justified given the benefits that will be achieved in the long term	0	0	0	0	0	0
When considering the administrative cost, the costs are justified compared to the benefits achieved	0	0	0	0	0	0
Further simplification of the law is possible (e.g. reducing treatment requirements and consequently costs, or monitoring and reporting requirements)	•	•	•	•	•	•
Further optimisation of the law is possible (i.e. gaining additional benefits from a similar level of costs for example by including some pollutants that could be removed at the same time than those specified in the law)	©	•	•	•	©	•
Stronger links could be made with technical progress and innovation (e.g. requiring continuous	0	0	0	0	•	0

improvement of environmental performance reflecting technological progress)						
The costs arising from the UWWTD, including renewal of infrastructure costs, have decreased over time	•	•	•	•	•	•
The benefits from the UWWTD have increased over time	0	0	•	0	0	0

If you would like to provide further information on one of the statements above, please do so here:

1500 character(s) maximum

The focus of the UWWTD is primarily nutrients and organic material, however other pollutants (i.e. organic chemicals of human origin or design, heavy metals, microplastics) are also removed to a large extent via the conventional treatment processes. UWWTPs are thus important filters between the urban environment and the aquatic environment for many waterborne chemical pollutants.

The directive does provide an important benefit for improvements in water status – if you look at it from the perspective of how good chemical status is defined today, with its limited range of measured chemicals under the WFD.

For certain water-soluble and stable chemicals, however, the removal in conventional UWWTPs is low. As such, in a revised UWWTD, targets for improved additional treatment steps specifically targeting these types of substances should be included.

Have the observed results been achieved in an efficient manner?

	Yes	No	I do not know
Results for collecting urban waste water	0	0	0
Results for treating urban waste water to a sufficient level	0	0	0
Results for complying with the threshold values	0	0	0

Are you aware of any problems relating to the financing and management of investments for the
implementation of the Directive (e.g. building of sewerage collection systems or treatment plans)

\bigcirc	Yes

O No

I do not know

In your Member State/ region/ municipality, are you aware of other type of funding / loan (e.g. funding from international institutions) available to support the implementation of the Directive?

	Yes, funding was available	No, I am not aware of any funding	Not applicable
Member State / national level	0	©	0
Regional level	0	0	0
Municipal level	0	0	0

Are the costs of complying with the Directive affecting the affordability of water services?

I do not know	
Relevance	
That is to say, whe	evance focuses on whether the needs and the objectives of the Directive are aligned. ether the specifications of the UWWTD are still relevant today in achieving its objectives environment from the adverse effects of waste water discharges.
environment that t	any problems/issues related to urban waste waters including their impact on the he Directive does not address?
YesNo	
I do not know	
If yes, please spec	sify:
1500 character(s) n	naximum
important land-to	The UWWTD in its current form does not sufficiently address the issue of UWWTPs being o-sea transport routes for micropollutants such as pharmaceuticals, industrial chemicals and than a 1000 chemicals that are rarely monitored, but known or suspected to cause adverse

ecological effects, have been identified in European waters. Almost half of the European freshwater bodies have been identified as likely threatened by chronic long-term effects on sensitive aquatic organisms. Many of these chemicals enter the aquatic environment via UWWTPs as these facilities comprise one of few

This provides for an opportunity to remove a large fraction of known and unknown contaminants from the water cycle by upgrading treatment techniques to remove a broad range of chemicals emitted from human

Do you think the Directive is sufficiently flexible to be integrated with urban planning policies? Yes

Υ	es

activities.

collection points for chemical flows in our society.

Yes O No

O No

ī	مام	n a t	Longonia
ı	ao	not	know

How relevant are the provisions of the Directive to the management of urban waste w	ater i	n
dispersed population or small rural communities?		

\odot	То	а	large	extent
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To some extent

To no extent

I do not know

To what extent do you agree with the following statements?

	To a large extent	To some extent	To no extent	I do not know
Biological oxygen demand (BOD5) is still valid as a parameter	0	0	0	0
The limit value for BOD5 is still accurate	0	0	0	0
Chemical oxygen demand (COD) is still valid as a parameter	0	0	0	0
The limit value for COD is still accurate	0	0	0	0
Total suspended solids (TSS) is still valid as a parameter	0	0	0	0
The limit value for TSS is still accurate	0	0	0	0
Nitrogen is still valid as a parameter	0	0	0	0
The limit value for nitrogen is still accurate	0	0	0	0
Phosphorus is still valid as a parameter	0	0	0	0
The limit value for phosphorus is still accurate	0	0	0	0

To what extent do you agree with the following statements?

	To a large extent	To some extent	To no extent	I do not know
The end of pipe approach for the collection and treatment of urban waste waters is still appropriate.	•	0	0	0
The objectives of the Directive addresses environmental protection as well as human health.	0	0	0	0
The analytical methods set out in the directive are still appropriate.	0	0	0	0
The monitoring requirements of the Directive are adequate.	0	0	0	0
The provisions related to IAS are still appropriate.	0	0	0	0
The provisions related to information to the public are sufficient and transparency is ensured.	0	0	0	0
The provisions related to reporting to the European Commission are clear.	0	0	0	0
The biennial report by the European Commission on the implementation of the directive is useful, even if reported data are published 2-3 years later.	0	0	0	0
There are no gaps in the scope of the UWWTD (e.g. pollutants, thresholds).	0	0	•	0
There are no obsolete / unnecessary provisions in the UWWTD.	0	0	0	0
The UWWTD promotes research and development.	0	0	0	0
The UWWTD encourages innovation and adaptation the uptake of the best available techniques.	0	0	•	0
The UWWTD allows for new / emerging pollutants to be considered.	0	0	•	0
The UWWTD efficiently promotes the re-use of sludge.	0	0	•	0
The UWWTD allows for effective management of sludge.	0	0	0	0
The UWWTD is compatible with the application of the circular economy principles (reduce, re-use, recycle) in the EU. (http://ec.europa.eu/environment/circular-economy/index_en.htm)	0	0	•	0

The UWWTD promotes the uptake of an integrated approach to the management of water quality and quantity.	©	0	0	0
The UWWTD promotes the uptake of nature-based solutions (e.g. green roofs, riparian buffer strips).	0	0	0	0
The UWWTD is compatible with the commitment to achieving the Sustainable Development Goals by 2030.	0	0	•	0
The UWWTD promotes sustainable approaches such as phosphorus and nitrogen recycling.	0	0	0	0
The UWWTD promotes safe waste water reuse.	0	0	0	0
The UWWTD allows the possibility to deal with storm water overflows in an efficient manner.	0	0	0	0

If you would like to comment on any of the above, please do so here:

1500 character(s) maximum

End of pipe: Upstream measures for single chemicals may not result in emission reductions that suffice to reduce environmental levels below relevant toxicity thresholds, such as EQS. Certain chemicals such as pharmaceuticals are also difficult to regulate on environmental grounds as they have invaluable benefits for humans. End-of-pipe measures are needed as a complement to upstream reductions of unwanted chemicals entering sewers as a precautionary measure that protects aquatic environments.

R&D/innovation+BAT: The UWWTD does not encourage innovation of advanced wastewater treatment technology. A revised directive offers the opportunity to spur innovation and a market for green technology. A small number of UWWTPs treat a relatively large fraction of all wastewater produced, and costs and energy demand of advanced wastewater treatment technologies per m3 are lower for large facilities. New pollutants: WWTPs are major collection points for chemical flows in society and important transport routes for many substances regulated in recipients. The UWWTD does not entail any mechanism for early warning, link to other policy/law that would trigger assessment of emerging pollutants in wastewater. A revised directive should allow for legislation covering micropollutants in receiving water bodies to feed back to the monitoring/screening/technology requirements of UWWTs.

Sludge & water reuse: Safe reuse is hampered due to uncertainty regarding present chemicals.

Coherence

The aim of these questions is to assess the extent at which the UWWTD is coherent and articulated appropriately with other EU policies and interventions.

To what extent are the provisions and requirements within the UWWTD coherent with each other and linked to each other, if needed?
To a large extent
To some extent
To no extent
I do not know
Do you wish to explain your response?
1500 character(s) maximum

Do you think the Directive is clearly drafted?

To a large exten
To some extent
To no extent

I do not know

If ar	ny aspects of the Directive are in your opinion unclear or missing, please indicate which ones
and	why:
15	00 charactor(e) maximum

1	500 character(s) maximum

To what extent is the UWWTD coherent with the following EU water law?

Please add comments to explain your responses in the 'comment' section below.

	To a large extent	To some extent	To no extent	I do not know
Water Framework Directive	0	•	0	0
Groundwater Directive	0	•	0	0
Environmental Quality Standards Directive	0	•	0	0
Floods Directive	0	0	0	0
Bathing Water Directive	0	0	0	0
Drinking Water Directive	0	•	0	0
Nitrates Directive	0	0	0	0
Sewage Sludge Directive	0	0	0	0
Marine Strategy Framework Directive	0	•	0	0
Industrial Emissions Directive	0	•	0	0
European Pollutant Release and Transfer Register	0	•	0	0
Other (please comment below)	0	0	0	0

If you would like to comment on any of the above, please do so here:

1500 character(s) maximum

A lack of policy coherence in EU's water-related legislation has been highlighted in recent years. The UWWTD needs to be part of the solution to fulfil and reach the targets under both the current and future WFD and its daughters + EQS-directive, and MSFD. UWWTDs are important entry routes for some, but not all, priority substances. These links should be better addressed in the UWWTD, e.g. by setting higher basic requirements on wastewater quality to better reflect current and future targets for chemical pollution of the aquatic environment.

To what extent is the UWWTD coherent with the following EU environmental policies?

Please add comments to explain your responses in the 'comment' section below.

	To a large extent	To some extent	To no extent	l do not know
Birds and Habitats Directives	0	0	0	0
Pesticides Framework Directive	0	0	0	0
Circular economy strategy	0	0	0	0
(http://ec.europa.eu/environment/circular-economy/index_en.htm)	0	0	0	0
Policies on endocrine disruptors	0	0	0	0
Environmental Impact Assessment Directive	0	0	0	0
Strategic Environmental Assessment Directive	0	0	0	0
Sustainable development goals	0	0	0	0
Energy Efficiency policies	0	0	0	0
Greenhouse Gas emissions reduction policies	0	0	0	0
Climate change adaptation policies	0	0	0	0
Other (please comment below)	0	0	0	0

If you would like to comment on any of the above, please do so here:

1500 character(s) maximum

Two EU strategies are missing here: The strategic approach to pharmaceuticals in the environment, PIE, (announced for 2015) and the strategy on a non-toxic environment (announced for 2018). It is regrettable that these are not mentioned here. Policies on endocrine disruptors is mentioned even though the strategy on EDC has not yet been published. The two missing strategies are both highly relevant to the issue of micropollutants and wastewater treatment.

For PIE it must be said that pharmaceuticals are difficult to regulate on environmental grounds as they have invaluable benefits for humans. They are also often poorly removed as many are by design highly water-soluble compounds that are resistant to biodegradation. This problem is foreseen to increase as with an ageing European population, ever more pharmaceuticals will be consumed. By imposing chemical limit values or advanced technology requirements on outgoing water from WWTPs in large agglomerations, chemical emissions could be significantly decreased.

EU added value

The aim of the questions is to gain an understanding of whether there are identifiable benefits to the fact that the law is at EU level compared to law at Member State level and whether action at EU level remains justified.

What is the additional value from adopting law on waste water at EU level as opposed to what could be achieved at national/regional level?

Please add comments to explain your responses in the 'comment' section below.

	High additional value	Some additional value	Little additional value	No additional value	l do not know
Better waste water treatment	•	0	0	0	0
Ensuring the delivery of improved collection and/or treatment of waste water	0	0	0	0	0
Cleaner rivers, lakes, and seas	•	0	0	0	©
Harmonisation of approaches	0	0	0	0	©
Easier to access financing	0	0	0	0	©
Enhanced comparability collection and treatment levels across Member States	0	0	0	0	0
Faster implementation due to risk of financial sanctions at EU level	0	0	0	0	0

Facilitating the of EU environmental policies	compliance of other Il Directives and	•	•	0	0	0	
Other (please co	omment below)	0	0	0	0	0	

If you would like to comment on any of the above, please do so here:

1500 character(s) maximum

From a Baltic Sea perspective with eight EU Member States having a coastline to it and being in the catchment area, EU level legislation in this area is crucial for the well-being of the sea. To give an example, out of the 615 WWTPs close to the Baltic Sea coast, 45 plants receive wastewater from more than 100 000 p.e. and together treat wastewater from almost 70% of the coastal population. Upgrading these large WWTPs with advanced treatment technologies would on average remove 70-80% of the micropollutants in outgoing water, reducing the total load from all coastal WWTPs by approximately 50%. This measure thus has potential to significantly lower concentrations of a wide range of micropollutants in seawater. This is particularly important for persistent and water soluble chemicals since they easily escape conventional WWTPs, spread in waterways and accumulate in aquatic "end-stations" such as the Baltic Sea.

To what extent do the issues addressed by the UWWTD continue to require law at EU level? To a large extent To some extent To no extent I do not know
What would be the most likely consequences of stopping or withdrawing the existing UWWTD? Negative impacts No impacts Positive impacts I do not know
If you wish to explain your response, please do so here: 1500 character(s) maximum

Final questions

If you wish to expand on any of your answers or if you wish to add comments or information on anything else, which is relevant to the collection and treatment of waste water in Europe, please do so here:

13	500 character(s) maximum			

If you consider there are materials / publications available online that should be considered by us in this evaluation exercise please feel free to describe them (title and author) in the box and include any relevant links:	
1500 character(s) maximum	
Contact	
ENV-URBAN-WASTE-WATER@ec.europa.eu	