

# Template for summary reports in accordance with article 7 of the Protocol on Water and Health

## Executive summary

*Please provide an overall evaluation of the progress achieved in implementing the Protocol in your country during the reporting period. Please provide a short description of the main steps taken and highlight important achievements, key challenges, success factors and concrete good practice examples.*

*Suggested length: maximum 2 pages*

## Part one General aspects

1. Were targets and target dates established in your country in accordance with article 6 of the Protocol?

*Please provide detailed information on the target areas in part two.*

YES  NO  IN PROGRESS

*If targets have been revised, please indicate the date of adoption and list the revised target areas. Please provide detailed information in part two.*

2. Were targets and target dates published and, if so, how?

*Please explain whether the targets and target dates were published, made available to the public (e.g., online, official publication, media) and communicated to the secretariat.*

*Although the document Protocol on Water and Health has not been affirmed in Slovenia the objectives of Article 6. of the Protocol are incorporated into today's legislation regarding the quality of drinking water (National Rules on drinking water, Official Gazette of the RS, Nos. 19/04, 35/04, 26/06, 92/06, 25/09, 74/15 and 51/17) and the quality of surface bathing water (Decree on the management of bathing water quality (Official Gazette of the Republic of Slovenia, No. 25/08).*

3. Has your country established national or local arrangements for coordination between competent authorities for setting targets? If so please describe, including information on which public authority(ies) took the leadership and coordinating role, which public authorities were involved and how coordination was ensured.

*The responsibilities for achieving the objectives of the Protocol are distributed between line ministries (Ministry of Health, Ministry of the Environment and Spatial Planning ...)*

4. Was a programme of measures or action plan developed to support implementation of the targets? If so, please briefly describe that programme or plan, including how financial implications were taken into account.

*There is no action plan adopted on the basis of the Water and Health Protocol however some of its objectives are compatible with the adopted Action plan for the Implementation of*

*Strategy of the RS for health of children and adolescents in relation to the environment 2012-2020.*

5. What has been done in your country to ensure public participation in the process of target setting in accordance with article 6, paragraph 2, and how was the outcome of public participation taken into account in the final targets set?

*Residents can draw attention to problems regarding quality and accessibility of drinking water through local community representatives who can then set in motion improvement procedures.*

6. Please provide information on the process by which this report has been prepared, including information on which public authorities had the main responsibilities and what other stakeholders were involved.

*The part of the report related to health aspects of drinking and bathing water is issued at the National Institute of Public Health (NIJZ) on the basis of national legislation provisions, knowledge of the problem of care and quality of drinking and bathing water in Slovenia and epidemiological data on hydric outbreaks. The report uses public available data on drinking water monitoring carried out by National Laboratory of Health, Environment and Food (NLZOH) and provided by the Ministry of Health (MZ).*

7. Please report any particular circumstances that are relevant for understanding the report, including whether there is a federal and/or decentralized decision-making structure.

## **Part two**

### **Targets and target dates set and assessment of progress**

*For countries that have set or revised targets and target dates, please provide information specifically related to the progress towards achieving them. If you have not set targets in a certain area, please explain why.*

*Suggested length: one page (330 words) per target area.*

#### **I. Quality of the drinking water supplied (art. 6, para. 2 (a))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

Large and medium-sized water supply system that supply more than 1,000 people (85% of inhabitants) have, as a rule, the proper quality of drinking water. Of this, one fifth of the population is supplied with drinking water, for which preparation is not necessary.

From the health and preventive point of view, in general, the most problematic are small supply areas that supply 50-1000 inhabitants (especially 50-500 inhabitants), as they are highly contaminated with faecal contamination, similar to the supply areas with surface water, among which we include also the karstic water source. The results of the chemical monitoring indicate the contamination of drinking water with pesticides and nitrates, mostly in the northeastern part of Slovenia.

For the purpose of improving the quality of drinking water, the following measures are foreseen:

Raise the awareness of all stakeholders and users about the importance of protection of the natural resources of drinking water, the importance of drinking water quality and the good hygienic habits for health, and increasing the accessibility of every user to information on the quality of drinking water.

Ensure the safety of drinking water with a preventive approach - a plan to ensure the safety of drinking water, from the capture, preparation and distribution of drinking water,

- implement measures in water protection zone or determinate (new) water protection zones for each water supply system and ensure the implementation of the regime in them,
- to ensure the compliance of drinking water and enforcement with the requirements set out in Annex I, in particular Parts A and B of the National Rules on Drinking Water (2004).
- consistently carry out activities for water preparation, where necessary,
- ensure the consistent implementation of the principle of multiple barriers to drinking water supply,
- reduce drinking water losses in water supply systems,
- reduce emissions into water,
- construction of a sewage system, separately for meteor and water treatment plants,
- Ensure professional management on uncontrolled - small water systems and connect residents to systems with expert management and regular control of drinking water

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## II. Reduction of the scale of outbreaks and incidents of water-related disease (art. 6, para. 2 (b))

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

In Slovenia, 1 - 3 water related disease outbreaks were reported annually in the period 1998-2017; there were no applications or reports of cases of diseases reports in 2006, 2009, 2015, and 2017. In an outbreak, there were 5 to 355 cases of illness. In about half of the outbreaks, the causative agent was not known; in other outbreaks, the following pathogens were identified: *Cryptosporidium parvum*, *Escherichia coli*, *Rotavirus*, *Norovirus*, *Bacillus cereus*, *Campylobacter jejuni*, *Salmonella Typhimurium*.

For the purpose of reducing / preventing water related disease the following measures are foreseen:

- Ensure access to safe drinking water, or appropriate preparation of water for all inhabitants of Slovenia.
- To improve the microbiological quality of drinking water in Slovenia, mainly due to faecal contamination, especially on small water systems and areas with karstic water source, which are the surface sources of drinking water from public health point of view, as we detect occasional faecal contamination.
- Ensure early detection, notification and treatment of water related disease outbreaks and a reduction in the number of acute intestinal infections where the agent is not proven.
- Analysis of causes and learning from experiences when managing outbreaks. In each outbreak, we find better ways to deal with and manage,

## III. Access to drinking water (art. 6, para. 2 (c))

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.

4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

In 2017, 94% of the population in Slovenia was supplied with drinking water from the supply areas, where drinking water monitoring was performed on the user's pipe. 6% of the population of Slovenia were not included in the monitoring; these are “uncontrolled small systems” that supply less than 50 people (e.g. own drinking water supply, self-supply) or for other reasons were not covered by monitoring (e.g. incomplete capture).

For the purpose of improving access to safe drinking water, the following measures are planned:

- Providing access to drinking water for all inhabitants of Slovenia in sufficient quantities.
- Residents who are supplied with drinking water from *systems with fewer than 50 people* should be informed by the local community that the National Rules on Drinking Water (no monitoring, no control) are not implemented. Local community should inform them about measures how to protect health against the adverse effects of contaminated water, which is used as drinking water. If there are reasonable grounds for believing that the water poses risk to human health, the local community must immediately give the inhabitants the Health-based recommendations prepared by National Institute of Public Health.
- Construction of connecting transport pipelines that would connect the existing small water supply to public drinking water systems with professional management and monitoring to ensure safe drinking water supply on the basis of a Water Safety Plan.

#### **IV. Access to sanitation (art. 6, para. 2 (d))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5 of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

#### **V. Levels of performance of collective systems and other systems for water supply (art. 6, para. 2 (e))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.

2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5 of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

## **VI. Levels of performance of collective systems and other systems for sanitation (art. 6, para. 2 (e))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

## **VII. Application of recognized good practices to the management of water supply (art. 6, para. 2 (f))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

## **VIII. Application of recognized good practice to the management of sanitation (art. 6, para. 2 (f))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

## **IX. Occurrence of discharges of untreated wastewater (art. 6, para. 2 (g) (i))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

## **X. Occurrence of discharges of untreated storm water overflows from wastewater collection systems (art. 6, para. 2 (g) (ii))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.

5. If you have not set a target in this area, please explain why.

## **XI. Quality of discharges of wastewater from wastewater treatment installations (art. 6, para. 2 (h))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

## **XII. Disposal or reuse of sewage sludge from collective systems of sanitation or other sanitation installations (art. 6, para. 2 (i))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

## **XIII. Quality of wastewater used for irrigation purposes (art. 6, para. 2 (i))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.



4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

**XIV. Quality of waters which are used as sources for drinking water (art. 6, para. 2 (j))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

**XV. Quality of waters used for bathing (art. 6, para. 2 (j))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

**XVI. Quality of waters used for aquaculture or for the production or harvesting of shellfish (art. 6, para. 2 (j))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).

3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

**XVII. Application of recognized good practice in the management of enclosed waters generally available for bathing (art. 6, para. 2 (k))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

**XVIII. Identification and remediation of particularly contaminated sites (art. 6, para. 2 (l))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

**XIX. Effectiveness of systems for the management, development, protection and use of water resources (art. 6, para. 2 (m))**

*For each target set in this area:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.

2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

## **XX. Additional national or local specific targets**

*In cases where additional targets have been set, for each target:*

1. Please describe the current target and target date. Please provide information on the background (including the baseline/starting point and reference to existing national and international legislation) and justification for the adoption of the target.
2. Please describe the actions taken (e.g., legal/regulatory, financial/economic, informational/educational and management measures) to reach the target (see also article 6, paragraph 5, of the Protocol).
3. Please assess the progress achieved from the baseline towards meeting the target as well as any challenges encountered.
4. Please describe how the target set under this area contributes to fulfilling global and regional commitments, in particular the 2030 Sustainable Development Agenda.
5. If you have not set a target in this area, please explain why.

## **Part three Common indicators<sup>1</sup>**

### **I. Quality of the drinking water supplied**

#### **1. Context of the data**

1. What is the population coverage (in millions or per cent of total national population) of the water supplies reported under sections 2 and 3 below?

*The data come from the National Program for Monitoring of Drinking Water (year 2017) which is being carried out by the National Laboratory of Health, Environment and Food (NLZOH) and provided by the Ministry of Health (MZ) in supply areas that provide drinking water for 50 or more people which is at least 10 m<sup>3</sup> of water per day. These supply areas provide drinking water for 94% of the population.*

[http://www.mpv.si/uploads/PR17Monitoring\\_PV\\_Letno\\_porocilo\\_2017.pdf](http://www.mpv.si/uploads/PR17Monitoring_PV_Letno_porocilo_2017.pdf)

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<sup>1</sup> In order to allow an analysis of trends for all Parties under the Protocol, please use wherever possible 2005 — the year of entry into force of the Protocol — as the baseline year.

The rationale of this question is to understand the population coverage of the water quality data reported under sections 2 and 3 below.

Please describe the type of water supplies for which data is included in the following tables, and the population share covered by these supplies.

Please also clarify the source of the water quality data provided (e.g., data from regulatory authorities).

2. Please specify from where the water quality samples reported in sections 2 and 3 below are primarily taken (e.g., treatment plant outlet, distribution system or point of consumption).

*The samples are taken at the point of use.*

The rationale of this question is to understand where the samples were primarily taken from for the water quality data reported in sections 2 and 3 below.

3. In sections 2 and 3 below, the standards for compliance assessment signify the national standards. If national standards for reported parameters deviate from the World Health Organization (WHO) guideline values, please provide information on the standard values.

*National standards for microbiological and chemical water quality parameters are in compliance with WHO guideline values.*

The rationale of this question is to understand any possible differences between the national standards for microbiological and chemical water quality parameters and the respective WHO guideline values.<sup>2</sup>

## 2. Bacteriological quality

4. Please indicate the percentage of samples that fail to meet the national standard for *Escherichia coli* (*E. coli*). Parties may also report on up to three other priority microbial indicators and/or pathogens that are subject to routine water quality monitoring.

*If possible, please provide segregated data for urban and rural areas in the table below. If this is not possible, please consider reporting by alternative categories available in your country, for example by “non-centralized versus centralized” water supplies or by population number-based categories. If you do so, please indicate the reported categories by renaming the rows in the column “area/category” in the table below accordingly.*

*If data can be reported neither for urban and rural areas nor for alternative categories, please report total (national) values only.*

*Please comment on the trends or provide any other important information supporting interpretation of the data.*

Parameter	Area/category	Baseline value (specify year) <b>2017</b>	Value reported in the previous reporting cycle (specify year)	Current value (specify year)
<i>E. coli</i>	<b>Total</b>	<b>2,8 % (87/3143 samples)</b>		
	Urban			

<sup>2</sup> The latest edition of the WHO *Guidelines for Drinking-water Quality* is available at: [http://www.who.int/water\\_sanitation\\_health/publications/dwq-guidelines-4/en/](http://www.who.int/water_sanitation_health/publications/dwq-guidelines-4/en/).

<i>Parameter</i>	<i>Area/category</i>	<i>Baseline value (specify year) 2017</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
	Rural			
Additional parameter 1:	<b>Total</b>			
	Urban			
	Rural			
Additional parameter 2:	<b>Total</b>			
	Urban			
	Rural			
Additional parameter 3:	<b>Total</b>			
	Urban			
	Rural			

### 3. Chemical quality

5. Please report on the percentage of samples that fail to meet the national standard for chemical water quality with regard to the following parameters:

- (a) Arsenic; 0
- (b) Fluoride; 0
- (c) Lead: 0,3% (1/286)
- (d) Nitrate. 0

6. Please also identify up to three additional chemical parameters that are of priority in the national or local context.

*If possible, please provide segregated data for urban and rural areas in the table below. If this is not possible, please consider reporting by alternative categories available in your country, for example by “non-centralized versus centralized” sanitation systems or by population number-based categories. If you do so, please indicate the reported categories by renaming the rows in the column “area/category” in the table below accordingly.*

*If data can be reported neither for urban and rural areas nor for alternative categories, please report total (national) values only.*

*Please comment on the trends or provide any other important information supporting interpretation of the data.*

<i>Parameter</i>	<i>Area/category</i>	<i>Baseline value (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
Arsenic	<b>Total</b>	<b>0 (2017)</b>		
	Urban			
	Rural			

<i>Parameter</i>	<i>Area/category</i>	<i>Baseline value (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
Fluoride	<b>Total</b>	<b>0(2017)</b>		
	Urban			
	Rural			
Lead	<b>Total</b>	<b>0,3 %(2017)</b>		
	Urban			
	Rural			
Nitrate	<b>Total</b>	<b>0 (2017)</b>		
	Urban			
	Rural			
Additional parameter 1: ...	<b>Total</b>			
	Urban			
	Rural			
Additional parameter 2: ...	<b>Total</b>			
	Urban			
	Rural			

Parameter	Area/category	Baseline value (specify year)	Value reported in the previous reporting cycle (specify year)	Current value (specify year)
Additional parameter 3:	<b>Total</b>			
...	Urban			
	Rural			

## II. Outbreaks and incidence of infectious diseases related to water

In filling out the below table, please consider the following points:

(a) For reporting outbreaks, please report confirmed water-related outbreaks only (i.e., for which there is epidemiological or microbiological evidence for water to have facilitated infection);

(b) For reporting incidents, please report the numbers related to all exposure routes. In your response:

(i) Please report cases per 100,000 population;

(ii) Please differentiate between zero incidents (0) and no data available (-).

Please extend the list of water-related diseases, to the extent possible, to cover other relevant pathogens (e.g., enteric viruses, *Giardia intestinalis*, *Vibrio cholerae*).

Please indicate how the information is collected (e.g., event-based or incidence-based surveillance).

*Over the past 20 years (1998 to 2017) there has been between 0 and 3 hydric epidemics reported annually, making a total of 28; there were no reports of an outbreak in years 2006, 2009, 2015, and 2017. The number of reported patients in a single hydric outbreak was between 5-355 (0.25-18 / 100,000 inhabitants), making a total of 2125. In about half of the cases of outbreaks in years 2005-2016 the cause was not known; in others cases the following agents were confirmed in the excreta: *Cryptosporidium parvum*, *Escherichia coli*, rotavirus, norovirus, *Bacillus cereus*, *Campylobacter jejuni*, *Salmonella Typhimurium*. The number of reported hydric outbreaks is underestimated. A portion of the outbreaks cannot be detected due to the fact that patients with a mild clinical picture do not seek help, or for other reasons.*

*The application data is collected by the epidemiological department of the NIJZ.*

Please comment on the trends or provide any other important information supporting interpretation of the data.

YEAR	NUMBER OF CONFIRMED WATER-BORNE OUTBREAKS	INCIDENCE PER 100 000 POPULATION	PATHOGEN
2018	1	0,048	no data available
2017	0	0,000	
2016	2	0,097	norovirus
			no data available

2015	0	0,000	
2014	1	0,049	Salmonella
2013	1	0,049	E.coli,
2012	1	0,049	rotavirus,
2011	3	0,146	norovirus,
			norovirus,
			no data available
2010	1	0,049	norovirus,
2009	0	0,000	
2008	1	0,049	no data available
2007	1	0,050	E.coli
2006	0	0,000	
2005	3	0,150	Cryptosporidium
			no data available
			norovirus
2004	1	0,050	norovirus
2003	1	0,050	norovirus
2002	3	0,150	rotavirus,
			no data available
			astrovirus
2001	2	0,100	no data available
			Shigella sonnei
2000	2	0,101	rotavirus
			Calicivirus
1999	2	0,101	no data available
			no data available
1998	3	0,152	Shigella sonnei
			no data available
			no data available

<i>Disease</i>	<i>Incidence rate per 100,000 population (all exposure )</i>			<i>Number of outbreaks (confirmed water-borne outbreaks)</i>		
	<i>Baseline (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>	<i>Baseline (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>

Shigellosis

Enterohaemorrhagic  
*E. coli* infection

Typhoid fever

Viral hepatitis A

Legionellosis



Cryptosporiosis

Additional disease 1:

Additional disease 2:

Additional disease 3:

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### III. Access to drinking water

*If possible, please provide segregated data for urban and rural areas in the table below. If this is not possible, please consider reporting by alternative categories available in your country, for example by “non-centralized versus centralized” water supply systems or by population number-based categories. If you do so, please indicate the reported categories by renaming the rows in the table below accordingly.*

*If data can be reported neither for urban and rural areas nor for alternative categories, please report total (national) values only.*

*In 2017 the program for Monitoring of Drinking Water included supply areas that provide drinking water for 50 or more people which is at least 10 m3 of water per day. These supply areas provide drinking water for 94% of the population.*

*The quality of drinking water is not known for 6% of the population who provide themselves with their own drinking water.*

*Please comment on the trends or provide any other important information supporting interpretation of the data with regard to access to drinking water.*

*According to the Office of Statistics of the Republic of Slovenia (SURs) the last record (1.1.2015) shows that 99.3% of residents had access to water in their home.*

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<i>Percentage of population with access to drinking water</i>	<i>Baseline value (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
<b>Total</b>	99,3 % (SURs, 1.1.2015)		
Urban			
Rural			

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Estimates provided by the WHO/United Nations Children’s Fund (UNICEF) Joint Monitoring Programme (JMP) for Water Supply and Sanitation. *JMP definitions are available at <http://www.wssinfo.org/definitions-methods/watsan-categories>.*

National estimates. *Please specify how “access” is defined and what types of drinking-water supplies are considered in the estimates in your country.*

*In particular, please specify if the above percentage on “access to drinking water” refers to access to (tick all applicable):*

Improved drinking water sources (as per JMP definition)

- Supplies located on premises
- Supplies available when needed
- Supplies that provide drinking water free from faecal contamination

#### IV. Access to sanitation

*If possible, please provide segregated data for urban and rural areas in the table below. If this is not possible, please consider reporting by alternative categories available in your country, for example by “non-centralized versus centralized” sanitation systems or by population number-based categories. If you do so, please indicate the reported categories by renaming the rows in the table below accordingly.*

*If data can be reported neither for urban and rural areas nor for alternative categories, please report total (national) values only.*

*Please comment on the trends or provide any other important information supporting interpretation of the data with regard to access to sanitation.*

<i>Percentage of population with access to sanitation</i>	<i>Baseline value (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
<b>Total</b>			
Urban			
Rural			

- Estimates provided by JMP. *JMP definitions are available at <http://www.wssinfo.org/definitions-methods/watsan-categories>.*
- National estimates. *Please specify how “access” is defined and what types of sanitation facilities are considered in the estimates in your country.*

*In particular, please specify if the above percentage on “access to sanitation” refers to access to (tick all applicable):*

- Improved sanitation facilities (as per JMP definition)
- Facilities not shared with other households
- Facilities from which excreta is safely disposed in situ or treated off site

#### V. Effectiveness of management, protection and use of freshwater resources

##### 1. Water quality

1. On the basis of national systems of water classification, please indicate the percentage of water bodies or the percentage of the volume (preferably) of water<sup>3</sup> falling under each defined class (e.g., for European Union countries and other countries following the European

<sup>3</sup> Please specify.

Union Water Framework Directive<sup>4</sup> classification, the percentage of surface waters of high, good, moderate, poor and bad ecological status, and the percentage of groundwaters/surface waters of good or poor chemical status; for other countries, in classes I, II, III, etc.).

**(a) For European Union countries and other countries following the European Union Water Framework Directive classification**

*(i) Ecological status of surface water bodies*

<i>Percentage of surface water classified as:</i>	<i>Baseline value (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
High status			
Good status			
Moderate status			
Poor status			
Bad status			
<b>Total number/volume of water bodies classified</b>			
<b>Total number/volume of water bodies in the country</b>			

*(ii) Chemical status of surface water bodies*

<i>Percentage of surface water bodies classified as</i>	<i>Baseline value (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
Good status			
Poor status			
<b>Total number/volume of water bodies classified</b>			
<b>Total number/volume of water bodies in the country</b>			

*(iii) Status of groundwaters*

<i>Percentage of groundwaters classified as</i>	<i>Baseline value (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
Good quantitative status			
Good chemical status			
Poor quantitative status			
Poor chemical status			
<b>Total number/volume of groundwater bodies classified</b>			
<b>Total number/volume of groundwater bodies in the country</b>			

<sup>4</sup> Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy.

**(b) For other countries**

*(i) Status of surface waters*

<i>Percentage of surface water falling under class<sup>a</sup></i>	<i>Baseline value (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
I			
II			
III			
IV			
V			
<b>Total number/volume of water bodies classified</b>			
<b>Total number/volume of water bodies in the country</b>			

<sup>a</sup> Rename and modify the number of rows to reflect the national classification system.

(ii) *Status of groundwaters*

<i>Percentage of groundwaters falling under class<sup>a</sup></i>	<i>Baseline value (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
I			
II			
III			
IV			
V			
<b>Total number/volume of groundwater bodies classified</b>			
<b>Total number/volume of groundwater bodies in the country</b>			

<sup>a</sup> Rename and modify the number of rows to reflect the national classification system.

2. Please provide any other information that will help put into context and aid understanding of the information provided above (e.g., coverage of information provided if not related to all water resources, how the quality of waters affects human health).

**2. Water use**

3. Please provide information on the water exploitation index at the national and river basin levels for each sector (agriculture, industry, domestic), i.e., the mean annual abstraction of freshwater by sector divided by the mean annual total renewable freshwater resource at the country level, expressed in percentage terms.

<i>Water exploitation index</i>	<i>Baseline value (specify year)</i>	<i>Value reported in the previous reporting cycle (specify year)</i>	<i>Current value (specify year)</i>
Agriculture			
Industry <sup>a</sup>			
Domestic use <sup>b</sup>			

<sup>a</sup> Please specify whether the figure includes both water abstraction for manufacturing industry and for energy cooling.

<sup>b</sup> Please specify whether the figure only refers to public water supply systems or also to individual supply systems (e.g., wells).

## **Part four**

### **Water-related disease surveillance and response systems**

1. In accordance with the provisions of article 8 of the Protocol:

Has your country established comprehensive water-related disease surveillance and early warning systems according to paragraph 1 (a)?

YES  NO  IN PROGRESS

Has your country prepared comprehensive national or local contingency plans for responses to outbreaks and incidents of water-related disease according to paragraph 1 (b)?

YES  NO  IN PROGRESS

Do relevant public authorities have the necessary capacity to respond to such outbreaks, incidents or risks in accordance with the relevant contingency plan according to paragraph 1 (c)?

YES  NO  IN PROGRESS

2. If yes or in progress, please provide summary information about key elements of the water-related disease surveillance and outbreak response systems (e.g., identification of water-related disease outbreaks and incidents, notification, communication to the public, data management and reporting). Please also provide reference to existing national legislation and/or regulations addressing water-related disease surveillance and outbreak response.

*Based on the legislation (Infectious Diseases Act) a system for early detecting, acting, analysis monitoring, reporting and notifying of all who are involved is in place. Slovenia is part of the EWRS.*

3. Please describe what actions have been taken in your country in the past three years to improve and/or sustain water-related disease surveillance, early warning systems and contingency plans, as well as to strengthen the capacity of public authorities to respond to water-related disease outbreaks and incidents, in accordance with the provisions of article 8 of the Protocol.

*At the Ministry of Health in 2018 an exercise at the national level based on the WHO – ERC workshop (Emergency response communication) was carried out thus improving the cross - sectoral linkage and communication.  
Slovenia is participating in the EMET-NET.  
WHO-JEE was carried out in Slovenia in 2017.*

## **Part five**

### **Progress achieved in implementing other articles of the Protocol**

Please provide a short description of the status of implementation of articles 9 to 14 of the Protocol, as relevant.

*Suggested length: up to two pages*

*Since 2004 the national drinking water legislation has been harmonized with the EU Drinking Water Directive and has established internal control of water supply systems based on HACCP which requires water supply managers to regularly educate and train themselves.*

*For the purpose of timely informing drinking water users of changes in quality and health risks the operators must comply with the NIJZ guidelines.*

*<http://www.nijz.si/sl/obvescanje-uporabnikov-zirs-nijz-in-nlzoh>*

*In accordance with the Rules on Drinking Water the NIJZ prepares and publishes instructions, recommendations and risk assessments for the general and professional public. They can be found on*

*<http://www.nijz.si/en/podrocja-dela/moje-okolje/pitna-voda>*

*The supervision over the implementation of the HACCP System is implemented by the ZIRS (Health Inspectorate of the Republic of Slovenia).*

*The WSP implementation is also under preparation.*

## Part six

### Thematic part linked to priority areas of work under the Protocol

#### 1. Water, sanitation and hygiene in institutional settings

1. In the table below, please provide information on the proportion of schools (primary and secondary) and health-care facilities that provide basic water, sanitation and hygiene (WASH) services.

*Basic services refer to the following:*

(a) *Basic sanitation service: Improved facilities (according to JMP definition), which are sex-separated and usable at the school or health-care facility;*

(b) *Basic drinking water service: Water from an improved source (according to JMP definition) is available at the school or health-care facility;*

(c) *Basic hygiene service: Handwashing facility with water and soap available to students (schools) or patients and health-care providers (health-care facilities).*

*If the above definitions/categories do not apply in your country, please report for alternative categories for which data are available. In this case, please indicate the reported categories by renaming the rows in the table below accordingly.*

*Please indicate the source of data. If data is not available, please put (-).*

<i>Institutional setting</i>	<i>Current value (specify year)</i>
<i>Schools</i>	
Basic sanitation service	
Basic drinking-water service	
Basic hygiene service	
<i>Health-care facilities</i>	
Basic sanitation service	
Basic drinking-water service	
Basic hygiene service	

*In Slovenia such public institutions cannot operate if they do not meet the above conditions.*

2. Has the situation of WASH in schools been assessed in your country?

YES  NO  IN PROGRESS

3. Has the situation of WASH in health-care facilities been assessed in your country?

YES  NO  IN PROGRESS

4. Do approved policies or programmes include actions (please tick all that apply):

- To improve WASH in schools
- To improve WASH in health-care facilities

5. If yes, please provide reference to main relevant national policy(ies) or programme(s).  
*In Slovenia such public institutions cannot operate if they do not meet the above conditions.*

**2. Safe management of drinking-water supply**

6. Is there a national policy or regulation in your country, which requires implementation of risk-based management, such as WHO water safety plans (WSPs), in drinking water supply?

YES  NO  IN PROGRESS

7. If yes, please provide reference to relevant national policy(ies) or regulatory documentation.

*The Drinking Water Guideline instructs water supply managers to establish a HACCP based internal structure. With the announced change in legislation the introduction of the WSP is foreseen. Guidelines for introducing WSP are ready.*

8. In the table below, please provide information on the percentage of the population serviced with drinking-water under a WSP.

*Please indicate the source of data. If data is not available, please put (-).*

<i>Percentage of population</i>	<i>Current value (specify year)</i>
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*A total of 94% (the percentage of the population supplied with drinking water from water supply systems included in the national monitoring of drinking water) serviced with drinking water under a HACCP*

**3. Equitable access to water and sanitation**

9. Has the equity of access to safe drinking-water and sanitation been assessed?

YES  NO  IN PROGRESS

10. Do national policies or programmes include actions to improve equitable access to water and sanitation (please tick all that apply):

- To reduce geographical disparities
- To ensure access for vulnerable and marginalized groups
- To keep water and sanitation affordable for all



11. If yes, please provide reference to main relevant national policy(ies) and programme(s).

CEHAP 2012-2020

*Operational program for drinking water supply 2014-2020*  
*Programs to reduce inequality at national and local levels*

## **Part seven**

### **Information on the person submitting the report**

The following report is submitted on behalf of \_\_\_\_\_  
[name of the Party, Signatory or other State] in accordance with article 7 of the Protocol on Water and Health.

Name of officer responsible for submitting the national report:

E-mail:

Telephone number:

Name and address of national authority:

Signature:

Date:

#### **Submission**

1. Parties are required to submit their summary reports to the joint secretariat, using the present template and in accordance with the adopted guidelines on reporting, 210 days before the next session of the Meeting of the Parties. Submission of the reports ahead of this deadline is encouraged, as this will facilitate the preparation of analyses and syntheses to be made available to the Meeting of the Parties.
2. Parties are requested to submit, to the two addresses below, an original signed copy by post and an electronic copy by e-mail. Electronic copies should be available in word-processing software.

#### **Joint Secretariat to the Protocol on Water and Health**

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