

## Template for reporting under the Water Convention and for global SDG indicator 6.5.2

Country name: **Finland**

This template or reporting form is in the form of a questionnaire to be filled out. Questions can be either “closed”, Yes /No , with appropriate boxes to tick; “open”, requiring further information to be supplied, indicated by the words in square brackets [fill in]; or a combination of both. Depending on the country situation, it will not always be necessary to fill in extra information where space is provided for this.

The questions are divided into four parts: national (section I); by transboundary basin, river, lake or aquifer (section II); list of transboundary waters and information for calculation of the SDG indicator 6.5.2, Proportion of transboundary basin area with an operational arrangement for water cooperation (section III), and final questions (section IV). Please answer open questions very briefly, and in less than 200 words, using bullet points as appropriate. Section II will need to be completed for each of the transboundary basins, rivers, lakes or aquifers (please just copy the template for these questions and fill out again for each additional transboundary basin, river, lake or aquifer).

The template encourages those reporting to refer to the reporting under other multilateral environmental agreements to which their country is a Party.

### I. Transboundary water management at the national level

In this first section, you are requested to provide general information on transboundary water management at the national level. Information on specific transboundary basins, rivers, lakes or aquifers and agreements should be presented in section II and not repeated here.

1. (a) Does your country’s national legislation refer to measures to prevent, control and reduce any transboundary impact (art. 2 of the Convention)?

Yes /No

*If yes, list the main national legislation:*

- Presidential decree on the entering to force of the UNECE Water Convention 695/1996
- Act on Environmental Protection 527/2014 Article 211
- Water Act 587/2011, Chapter 18, Article 16

- (b) Do your country’s national policies, action plans and strategies refer to measures to prevent, control and reduce any transboundary impact?

Yes /No

*If yes, list the main national policies, action plans and strategies:*

- River Basin Management Plans 2016-2021
- Flood Risk Management Plans 2016-2021
- Strategy on Water Resources 2011-2020
- International Water Strategy of Finland 2009
- National Programme on Dangerous Chemicals?

- (c) Does your country’s legislation provide for the following principles?

Precautionary principle Yes /No

Polluter pays principle Yes /No

Sustainable development Yes /No

(d) Does your country have a national licensing or permitting system for wastewater discharges and other point source pollution (art. 3, para. 1 (b)) (e.g., in industry, mining, energy, municipal, wastewater management or other sectors)?

Yes /No

If yes, for which sectors? (please list): All municipalities and industrial sectors having point source waste water discharges including peat production.

If not, please explain why not (giving the most important reasons) or provide information if there are plans to introduce a licensing or permitting system: [fill in]

If your country has a licensing system, does the system provide for setting emission limits based on best available technology?

Yes /No

(e) Are the authorized discharges monitored and controlled (art. 3, para. 1 (b))?

Yes /No

If yes, how? (Please tick the ones applicable):

- |  |                                     |
|--|-------------------------------------|
| Monitoring of discharges                             | <input checked="" type="checkbox"/> |
| Monitoring of physical and chemical impacts on water | <input checked="" type="checkbox"/> |
| Monitoring of ecological impacts on water            | <input checked="" type="checkbox"/> |
| Conditions on permits                                | <input checked="" type="checkbox"/> |
| Inspectorate   | <input checked="" type="checkbox"/> |

Other means (please list): [fill in]

If your country does not have a discharge monitoring system, please explain why not or provide information if there are plans to introduce a discharge monitoring system: [fill in]

(f) What are the main measures which your country takes to reduce diffuse sources of water pollution on transboundary waters (art. 3, para. 1) (e.g., from agriculture, transport, forestry or aquaculture)? The measures listed below relate to agriculture, but other sectors may be more significant. Please be sure to include these under "others":

**Legislative measures**

- |  |                                     |
|--|-------------------------------------|
| Norm for uses of fertilizers           | <input checked="" type="checkbox"/> |
| Norms for uses of manure               | <input checked="" type="checkbox"/> |
| Bans on or norms for use of pesticides | <input checked="" type="checkbox"/> |
| Others (please list): [fill in]        |                                     |

**Economic and financial measures**

- |  |                                     |
|--|-------------------------------------|
| Monetary incentives                            | <input checked="" type="checkbox"/> |
| Environmental taxes (such as fertilizer taxes) | <input type="checkbox"/>            |
| Others (please list): [fill in]                |                                     |

**Agricultural extension services**

**Technical measures**

*Source control measures*

- |                    |                                     |
|--------------------|-------------------------------------|
| Crop rotation      | <input checked="" type="checkbox"/> |
| Tillage control    | <input checked="" type="checkbox"/> |
| Winter cover crops | <input checked="" type="checkbox"/> |

Others (*please list*): [fill in]

*Other measures*

Buffer/filter strips

Wetland reconstruction

Sedimentation traps

Chemical measures

Others (*please list*): [fill in]

**Other types of measures**

*If yes, please list:* [fill in]

(g) What are the main measures, which your country takes to enhance water efficiency (art. 3)?

*Please tick as appropriate (not all might be relevant)*

A regulatory system regarding water abstraction

Monitoring and control of abstractions

Water rights are clearly defined

Water allocation priorities are listed

Water-saving technologies

Advanced irrigation techniques

Demand management activities

Other means (*please list*)

(h) Does your country apply the ecosystems approach (art. 3, para. 1 (i), and art. 2, para. 1 (d))?

Yes /No

*If yes, please describe how:* [fill in]

**Environmental Protection Act and Water Act take into account ecosystem approach.**

(i) Does your country take specific measures to prevent the pollution of groundwaters (art. 3, para. 1 (k))?

Yes /No

*If yes, please list the most important measures:* **Environmental Protection Act (Art 17) is unconditionally prohibiting pollution of groundwaters.**

2. Does your country require transboundary environmental impact assessment (EIA)?

Yes /No

Does your country have procedures for transboundary EIA?

Yes /No

*If yes, please make reference to the legislative basis (please insert the name and section of the relevant laws). (Please note: If your country is a Party to the Convention on Environmental Impact Assessment in a Transboundary Context, you may refer to your country's report under that Convention.):*

**Convention on Environmental Impact Assessment in a Transboundary Context (Espoo Convention, 1991)**

3. Does your country have transboundary agreements or arrangements for the protection and/or management of transboundary waters (i.e., surface waters or aquifers), whether bilateral, multilateral and/or at the basin level?

Yes /No

If yes, list the bilateral, multilateral and basin agreements (listing for each of the countries concerned):

Agreement on transboundary watercourses between Finland and Russia (agreement in russian)

<http://rajavesistokomissio.fi/materiaali/finljandija.pdf>

See English version as appendix.

Agreement between Finland and Sweden Concerning Transboundary Rivers

<http://www.fsgk.se/Finnish-Swedish-Transboundary-Rivers-Agreement-2009.pdf>

Agreement on a Finnish-Norwegian Frontier Water Commission (1981)

[http://www.finlex.fi/fi/sopimukset/sopsteksti/1981/19810032/19810032\\_2](http://www.finlex.fi/fi/sopimukset/sopsteksti/1981/19810032/19810032_2)

## II. Questions for each transboundary basin, river, lake or aquifer

Please complete this second section for each transboundary basin, river, lake or aquifer, or for group of basins covered by the same agreement or arrangement and where conditions are similar. It might also be convenient to group basins or sub-basins for which your country's share is very small.<sup>a</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements<sup>b</sup> on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares the basin or aquifer or even prepare a joint report for shared basins. General information on transboundary water management at the national level should be provided in section I and not repeated here.

Please reproduce the whole section II with its questions for each transboundary basin, river, lake or aquifer, or group of basins for which you will provide a reply.

**Name of the transboundary basin, river, lake or aquifer, or group thereof, list of the riparian States, and country's share of the basin: Vuoksi**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin (art. 9)?

One or more agreements or arrangements exist and are in force

Agreement or arrangement developed but not in force

Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement or agreements or arrangements:*

Agreement between the Republic of Finland and the Union of Soviet Socialist Republics concerning Frontier Watercourses

Agreement or arrangement is under development

No agreement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

<sup>a</sup> In principle, section 2 should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>b</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

**If there is no agreement or arrangement and no joint body for the transboundary basin, river, lake or aquifer then jump to question 4; if there is no agreement, but a joint body then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, river, lake or aquifer or group of basins or sub-basins**

2. (a) Does this agreement or arrangement specify the basin area subject to cooperation?

Yes /No

If yes, does it cover the entire basin, or group of basins, and all riparian States?

Yes /No

If not, what does it cover?: [fill in]

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): Finland and Russia

(b) Are aquifers (or groundwater bodies) covered by the agreement/arrangement?

Yes /No

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

Agriculture

Transport (e.g., navigation)

Households

Energy: hydropower and other energy types

Tourism

Nature protection

Other (please list): [fill in]

(d) What topics or subjects of cooperation are included in the agreement or arrangement (art. 9)?

**Procedural and institutional issues**

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance (art. 15)

**Topics of cooperation**

|   |                                     |
|---|-------------------------------------|
| Joint vision and management objectives  | <input checked="" type="checkbox"/> |
| Joint significant water management issues   | <input checked="" type="checkbox"/> |
| Navigation  | <input type="checkbox"/>            |
| Environmental protection (ecosystem)  | <input checked="" type="checkbox"/> |
| Water quality   | <input checked="" type="checkbox"/> |
| Water quantity or allocation  | <input checked="" type="checkbox"/> |
| Cooperation in addressing floods  | <input checked="" type="checkbox"/> |
| Cooperation in addressing droughts  | <input checked="" type="checkbox"/> |
| Climate change adaptation   | <input checked="" type="checkbox"/> |
| <b>Monitoring and exchange</b>  |                                     |
| Joint assessments   | <input checked="" type="checkbox"/> |
| Data collection and exchange (art. 13)  | <input checked="" type="checkbox"/> |
| Joint monitoring (art. 11)  | <input checked="" type="checkbox"/> |
| Maintenance of joint pollution inventories  | <input checked="" type="checkbox"/> |
| Elaboration of joint water quality objectives   | <input type="checkbox"/>            |
| Common early warning and alarm procedures (art. 14)   | <input checked="" type="checkbox"/> |
| Exchange of experience between riparian States  | <input checked="" type="checkbox"/> |
| Exchange of information on planned measures   | <input checked="" type="checkbox"/> |
| <b>Joint planning and management</b>  |                                     |
| Development of joint regulations on specific topics   | <input type="checkbox"/>            |
| Development of international or joint river, lake or aquifer basin management or action plans | <input checked="" type="checkbox"/> |
| Management of shared infrastructure   | <input type="checkbox"/>            |
| Development of shared infrastructure  | <input type="checkbox"/>            |
| Other ( <i>please list</i> ): [fill in]   |                                     |

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any (*please describe, if applicable*): [fill in]

See 'Final questions'

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?: [fill in]

All major issues have been solved and arranged mutually. Joint monitoring of discharges, water flow and water quality increased the trust between parties already long time ago.

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): [fill in]

3. Is your country a member of an operational joint body or joint bodies for this agreement/arrangement (art. 9)?

Yes /No

If no, why not? (*please explain*): [fill in]

**Where there is a joint body (or bodies)**

(a) If there is a joint body, which kind of joint body (*please tick one*)?

Plenipotentiaries

Bilateral commission

Basin or similar commission

Other (*please describe*): [fill in]

(b) Does the joint body cover the entire transboundary basin or sub-basin, river, lake or aquifer, or group of basins, and all riparian States?

Yes /No

(c) Which States (including your own) are member of the joint body? (*Please list*): Russia and Finland

(d) Does the joint body have any of the following features (*please tick the ones applicable*)?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):* [fill in]

A subsidiary body or bodies

*Please list (e.g., working groups on specific topics):* Working Group on Integrated water Resources management and Working Goup on Water Protection

Other features (*please list*): [fill in]

(e) What are the tasks and activities of this joint body (art. 9, para. 2)<sup>c</sup>

Identification of pollution sources

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

Setting emission limits

Elaboration of joint water quality objectives

Management and prevention of flood or drought risks

Preparedness for extreme events, e.g., common early warning and alarm procedures

Water allocation and/or flow regulation

Policy development

Control of implementation

Exchange of experience between riparian States

Exchange of information on existing and planned uses of water and related installations

Settling of differences and conflicts

Consultations on planned measures

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<sup>c</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

- Exchange of information on best available technology
- Participation in transboundary EIA
- Development of river, lake or aquifer basin management or action plans  x
- Management of shared infrastructure
- Addressing hydromorphological alterations
- Climate change adaptation
- Joint communication strategy
- Basin-wide or joint public participation and consultation of, for example, basin management plans
- Joint resources to support transboundary cooperation
- Capacity-building
- Any other tasks (*please list*): [fill in]

(f) What are the main difficulties and challenges that your country faces with the operation of the joint body, if any?

- Governance issues   
*Please describe, if any:* [fill in]
- Unexpected planning delays   
*Please describe, if any:* [fill in]????
- Lack of resources   
*Please describe, if true:* [fill in]
- Lack of mechanism for implementing measures   
*Please describe, if true:* [fill in]
- Lack of effective measures   
*Please describe, if true:* [fill in]
- Unexpected extreme events   
*Please describe, if any:* [fill in]
- Lack of information and reliable forecasts   
*Please describe, if any:* [fill in]diffuse pollution, hydrological information
- Others (*please list and describe, as appropriate*): [fill in]

(g) If not all riparian States are members of the joint body how does the body cooperate with them?

- No cooperation
- They have observer status
- Other (*please describe*): [fill in]

(h) Does the joint body or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet? Once per year

(i) What are the main achievements with regards to the joint body?: [fill in]

**Systematic monitoring of all agreed activities, and also development for improving the joint management of the shared river basin.**



(j) Are representatives of international organizations invited to the meetings of the joint body (or bodies) as observers?

Yes /No

(k) Did the joint body ever invite a coastal State to cooperate (art. 9, paras. 3 and 4)?

Yes /No

*If yes, please give details. If no, why not?:* **The Vuoksi river basin discharges to the Lake Ladoga no to the Sea**

4. Is there a joint or coordinated management plan (such as an action plan or a common strategy) or have joint objectives been set specifically on the transboundary waters subject to cooperation (art. 9, para. 2 (f)) ?

Yes /No

*If yes, please provide further details:* **Plan for Flood Risk management**

5. How is the transboundary basin, river, lake or aquifer protected, including the protection of ecosystems, in the context of sustainable and rational water use (art. 2, para. 2 (b), and art. 3, para. 1 (i))

Afforestation

Restoration of ecosystems

Environmental flow norms

Groundwater measures (e.g., protection zones)

Other measures (*please list*): [fill in]

6. (a) Does your country exchange information and data with other riparian States in the basin (art. 13)?

Yes /No

(b) If yes, on what subjects are information and data exchanged?

Environmental conditions (art. 13, para. (1) (a))

Research activities and application of best available techniques (arts. 5, 12 and 13, para. 1 (b))

Emission monitoring data (art. 13, para. 1 (c))

Planned measures taken to prevent, control or reduce transboundary impacts (art. 13, para. 1 (d))

Point source pollution sources

Diffuse pollution sources

Existing hydromorphological alterations (dams, etc.)

Discharges

Water abstractions

Future planned measures with transboundary impacts, such as infrastructure development

Other subjects (*please list*): [fill in]

(c) Is there a shared database or information platform?

Yes /No

(d) Is the database publicly available?

Yes /No

If yes, please provide the web address: [fill in]

(e) What are the main difficulties and challenges to data exchange, if applicable? (please describe): [fill in] **Data flow from Russia is not in all cases real-time**

(f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (please describe): [fill in] **water flow predictions and emergency warnings, regulations**

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer (art. 11, para. 1)?

Yes /No

(a) If yes, what does the joint monitoring cover?

|  | Covered                             | Hydrological                        | Ecological               | Chemical                            |
|--|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| Border surface waters                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Surface waters in the entire basin     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Surface waters on the main watercourse | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Connected aquifers (or groundwaters)   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| Unconnected aquifers (or groundwaters) | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |

(b) If joint monitoring is carried out, how is this done?

|   |                                     |
|---|-------------------------------------|
| National monitoring stations connected through a network or common stations | <input checked="" type="checkbox"/> |
| Joint and agreed methodologies  | <input checked="" type="checkbox"/> |
| Joint sampling  | <input checked="" type="checkbox"/> |
| Common monitoring network   | <input checked="" type="checkbox"/> |
| Common agreed parameters  | <input checked="" type="checkbox"/> |

(c) Please describe the main achievements regarding joint monitoring, if any: **Long term trend from 1960's, reliable and comparable data from both parties**

(d) Please describe any difficulties experienced with joint monitoring: [fill in]

8. Do the riparian States carry out joint assessment of the transboundary basin, river, lake or aquifer (art. 11)?

Yes /No

If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment: [fill in] **Once per year**

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

If yes, is the basis an international or regional standard (please specify which) or has it been adapted from the national standards of the riparian States?: [fill in]

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution (art. 14)?

|  |                                     |
|--|-------------------------------------|
| Notification and communication                                   | <input checked="" type="checkbox"/> |
| Coordinated or joint alarm system for accidental water pollution | <input checked="" type="checkbox"/> |
| Other (please list): [fill in]                                   |                                     |
| No measures  | <input type="checkbox"/>            |

*If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]*

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events (art. 14)?

- Notification and communication
- Coordinated or joint alarm system for floods
- Coordinated or joint alarm system for droughts
- Joint climate change adaptation strategy
- Joint disaster risk reduction strategy
- Other (*please list*): [fill in]
- No measures

*If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]*

12. Are procedures in place for mutual assistance in case of a critical situation (art. 15)?

Yes /No

*If yes, please provide a brief summary: [fill in]*

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, river, lake or aquifer? (art. 16)?

Yes /No

*If yes, how? (please tick all applicable) (Please note: If your country is a Party to the Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters (Aarhus Convention), you may refer to your country's report under that Convention.): ??*

- Stakeholders have observer status in a joint body
- If yes, please specify the stakeholders for each joint body: [fill in]*
- Availability of information to the public
- Consultation on planned measures or river basin management plans<sup>d</sup>
- Public involvement
- Other (*please specify*): [fill in]

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<sup>d</sup> Or, where applicable, aquifer management plans.

**Name of the transboundary basin, river, lake or aquifer, or group thereof, list of the riparian States, and country's share of the basin: Hiitolanjoki**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin (art. 9)?

One or more agreements or arrangements exist and are in force

Agreement or arrangement developed but not in force

Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement or agreements or arrangements:*

Agreement between the Republic of Finland and the Union of Soviet Socialist Republics concerning Frontier Watercourses

Agreement or arrangement is under development

No agreement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body for the transboundary basin, river, lake or aquifer then jump to question 4; if there is no agreement, but a joint body then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, river, lake or aquifer or group of basins or sub-basins**

2. (a) Does this agreement or arrangement specify the basin area subject to cooperation?

Yes /No

If yes, does it cover the entire basin, or group of basins, and all riparian States?

Yes /No

If not, what does it cover?: [fill in]

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Which States (including your own) are bound by the agreement or arrangement?  
*(Please list):* Finland and Russia

(b) Are aquifers (or groundwater bodies) covered by the agreement/arrangement?

Yes /No

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

- Agriculture x
- Transport (e.g., navigation)
- Households x
- Energy: hydropower and other energy types x
- Tourism x
- Nature protection x
- Other (*please list*): migratory fish

(d) What topics or subjects of cooperation are included in the agreement or arrangement (art. 9)?

**Procedural and institutional issues**

- Dispute and conflict prevention and resolution x
- Institutional cooperation (joint bodies) x
- Consultation on planned measures x
- Mutual assistance (art. 15)

**Topics of cooperation**

- Joint vision and management objectives x
- Joint significant water management issues x
- Navigation
- Environmental protection (ecosystem) x
- Water quality x
- Water quantity or allocation x
- Cooperation in addressing floods x
- Cooperation in addressing droughts x
- Climate change adaptation x

**Monitoring and exchange**

- Joint assessments x
- Data collection and exchange (art. 13) x
- Joint monitoring (art. 11) x
- Maintenance of joint pollution inventories x
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures (art. 14) x
- Exchange of experience between riparian States x
- Exchange of information on planned measures x

**Joint planning and management**

- Development of joint regulations on specific topics
- Development of international or joint river, lake or aquifer basin management or action plans
- Management of shared infrastructure
- Development of shared infrastructure

Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any (*please describe, if applicable*): [fill in]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?: [fill in]

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): [fill in]

3. Is your country a member of an operational joint body or joint bodies for this agreement/arrangement (art. 9)?

Yes /No

*If no, why not? (please explain):* [fill in]

#### **Where there is a joint body (or bodies)**

(a) If there is a joint body, which kind of joint body (*please tick one*)?

Plenipotentiaries

Bilateral commission

Basin or similar commission

Other (*please describe*): [fill in]

(b) Does the joint body cover the entire transboundary basin or sub-basin, river, lake or aquifer, or group of basins, and all riparian States?

Yes /No

(c) Which States (including your own) are member of the joint body? (*Please list*): **Russia and Finland**

(d) Does the joint body have any of the following features (*please tick the ones applicable*)?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):* [fill in]

A subsidiary body or bodies

*Please list (e.g., working groups on specific topics):* Working Group on Integrated water Resources management and Working Group on Water Protection

Other features (*please list*): [fill in]

(e) What are the tasks and activities of this joint body (art. 9, para. 2)?<sup>e</sup>

Identification of pollution sources

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

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<sup>e</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

- Setting emission limits
- Elaboration of joint water quality objectives
- Management and prevention of flood or drought risks x
- Preparedness for extreme events, e.g., common early warning and alarm procedures x
- Water allocation and/or flow regulation x
- Policy development
- Control of implementation x
- Exchange of experience between riparian States x
- Exchange of information on existing and planned uses of water and related installations x
- Settling of differences and conflicts x
- Consultations on planned measures x
- Exchange of information on best available technology x
- Participation in transboundary EIA x
- Development of river, lake or aquifer basin management or action plans
- Management of shared infrastructure
- Addressing hydromorphological alterations x
- Climate change adaptation x
- Joint communication strategy x
- Basin-wide or joint public participation and consultation of, for example, basin management plans
- Joint resources to support transboundary cooperation
- Capacity-building
- Any other tasks (*please list*): [fill in]

(f) What are the main difficulties and challenges that your country faces with the operation of the joint body, if any?

- Governance issues   
*Please describe, if any:* [fill in]
- Unexpected planning delays   
*Please describe, if any:* [fill in]????
- Lack of resources   
*Please describe, if true:* [fill in]
- Lack of mechanism for implementing measures   
*Please describe, if true:* [fill in]
- Lack of effective measures   
*Please describe, if true:* [fill in]
- Unexpected extreme events   
*Please describe, if any:* [fill in]
- Lack of information and reliable forecasts

Please describe, if any: [fill in]

Others (please list and describe, as appropriate): [fill in]

(g) If not all riparian States are members of the joint body how does the body cooperate with them?

No cooperation

They have observer status

Other (please describe): [fill in]

(h) Does the joint body or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet? **Once per year**

(ii) What are the main achievements with regards to the joint body?: [fill in]

(j) Are representatives of international organizations invited to the meetings of the joint body (or bodies) as observers?

Yes /No

(k) Did the joint body ever invite a coastal State to cooperate (art. 9, paras. 3 and 4)?

Yes /No

If yes, please give details. If no, why not?: [fill in] **The Hiitolanjoki river basin discharges to the Lake Ladoga not to the Sea**

4. Is there a joint or coordinated management plan (such as an action plan or a common strategy) or have joint objectives been set specifically on the transboundary waters subject to cooperation (art. 9, para. 2 (f)) ?

Yes /No

If yes, please provide further details: [fill in]

5. How is the transboundary basin, river, lake or aquifer protected, including the protection of ecosystems, in the context of sustainable and rational water use (art. 2, para. 2 (b), and art. 3, para. 1 (i))

Afforestation

Restoration of ecosystems

Environmental flow norms

Groundwater measures (e.g., protection zones)

Other measures (please list): [fill in]

6. (a) Does your country exchange information and data with other riparian States in the basin (art. 13)?

Yes /No

(b) If yes, on what subjects are information and data exchanged?

Environmental conditions (art. 13, para. (1) (a))

Research activities and application of best available techniques (arts. 5, 12 and 13, para. 1 (b))

Emission monitoring data (art. 13, para. 1 (c))

Planned measures taken to prevent, control or reduce transboundary impacts (art. 13, para. 1 (d))

Point source pollution sources



- Diffuse pollution sources
- Existing hydromorphological alterations (dams, etc.)
- Discharges
- Water abstractions
- Future planned measures with transboundary impacts, such as infrastructure development
- Other subjects (*please list*): [fill in]

(c) Is there a shared database or information platform?

Yes /No

(d) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* [fill in]

(e) What are the main difficulties and challenges to data exchange, if applicable? (*please describe*): [fill in]

(f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*): [fill in] **water flow predictions and emergency warnings, regulations**

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer (art. 11, para. 1)?

Yes /No

(a) If yes, what does the joint monitoring cover?

|  | Covered                    | Hydrological               | Ecological               | Chemical                   |
|--|----------------------------|----------------------------|--------------------------|----------------------------|
| Border surface waters                  | x <input type="checkbox"/> | x <input type="checkbox"/> | <input type="checkbox"/> | x <input type="checkbox"/> |
| Surface waters in the entire basin     | x <input type="checkbox"/> | x <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>   |
| Surface waters on the main watercourse | x <input type="checkbox"/> | x <input type="checkbox"/> | <input type="checkbox"/> | x <input type="checkbox"/> |
| Connected aquifers (or groundwaters)   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   |
| Unconnected aquifers (or groundwaters) | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   |

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

Joint and agreed methodologies

Joint sampling

Common monitoring network

Common agreed parameters

(c) Please describe the main achievements regarding joint monitoring, if any: **Long term trend from 1960's, reliable and comparable data from both parties**

(d) Please describe any difficulties experienced with joint monitoring: [fill in]

8. Do the riparian States carry out joint assessment of the transboundary basin, river, lake or aquifer (art. 11)?

Yes /No

If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment: [fill in] **Once per year**

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

If yes, is the basis an international or regional standard (please specify which) or has it been adapted from the national standards of the riparian States?: [fill in]

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution (art. 14)?

Notification and communication

Coordinated or joint alarm system for accidental water pollution

Other (please list): [fill in]

No measures

If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events (art. 14)?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (please list): [fill in]

No measures

If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]

12. Are procedures in place for mutual assistance in case of a critical situation (art. 15)?

Yes /No

If yes, please provide a brief summary: [fill in]

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, river, lake or aquifer? (art. 16)?

Yes /No

If yes, how? (please tick all applicable) (Please note: If your country is a Party to the Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters (Aarhus Convention), you may refer to your country's report under that Convention.): ?

Stakeholders have observer status in a joint body

If yes, please specify the stakeholders for each joint body: [fill in]

Availability of information to the public

Consultation on planned measures or river basin management plans<sup>f</sup>

Public involvement

<sup>f</sup> Or, where applicable, aquifer management plans.

Other (please specify): [fill in]

**Please remember to complete section II for each of the transboundary basins, rivers, lakes or aquifers. Please also remember to attach copies of agreements, if any.**

**Name of the transboundary basin, river, lake or aquifer, or group thereof, list of the riparian States, and country's share of the basin:** Group of rivers: **Rakkolanjoki, Urpalanjoki Saimaan Canal**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin (art. 9)?

One or more agreements or arrangements exist and are in force x

Agreement or arrangement developed but not in force

Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement or agreements or arrangements:*

Agreement between the Republic of Finland and the Union of Soviet Socialist Republics concerning Frontier Watercourses

Agreement or arrangement is under development

No agreement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body for the transboundary basin, river, lake or aquifer then jump to question 4; if there is no agreement, but a joint body then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, river, lake or aquifer or group of basins or sub-basins**

2. (a) Does this agreement or arrangement specify the basin area subject to cooperation?

Yes x /No

If yes, does it cover the entire basin, or group of basins, and all riparian States?

Yes x /No

If not, what does it cover?: [fill in]

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): Finland and Russia

- (b) Are aquifers (or groundwater bodies) covered by the agreement/arrangement?

Yes /No x

- (c) What is the sectoral scope of the agreement or arrangement?

- All water uses
- A single water use or sector
- Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

- Industry
- Agriculture
- Transport (e.g., navigation)
- Households
- Energy: hydropower and other energy types
- Tourism
- Nature protection
- Other (*please list*): [fill in]

(d) What topics or subjects of cooperation are included in the agreement or arrangement (art. 9)?

**Procedural and institutional issues**

- Dispute and conflict prevention and resolution
- Institutional cooperation (joint bodies)
- Consultation on planned measures
- Mutual assistance (art. 15)

**Topics of cooperation**

- Joint vision and management objectives
- Joint significant water management issues
- Navigation
- Environmental protection (ecosystem)
- Water quality
- Water quantity or allocation
- Cooperation in addressing floods
- Cooperation in addressing droughts
- Climate change adaptation

**Monitoring and exchange**

- Joint assessments
- Data collection and exchange (art. 13)
- Joint monitoring (art. 11)
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures (art. 14)
- Exchange of experience between riparian States
- Exchange of information on planned measures

### Joint planning and management

Development of joint regulations on specific topics

Development of international or joint river, lake or aquifer basin management or action plans

Management of shared infrastructure

Development of shared infrastructure

Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any (*please describe, if applicable*): [fill in]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?: [fill in]

All major issues have been solved and arranged mutually. Joint monitoring on discharges, water flow and water quality increased the trust between parties already long time ago.

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): [fill in]

3. Is your country a member of an operational joint body or joint bodies for this agreement/arrangement (art. 9)?

Yes /No

If no, why not? (*please explain*): [fill in]

### Where there is a joint body (or bodies)

(a) If there is a joint body, which kind of joint body (*please tick one*)?

Plenipotentiaries

Bilateral commission

Basin or similar commission

Other (*please describe*): [fill in]

(b) Does the joint body cover the entire transboundary basin or sub-basin, river, lake or aquifer, or group of basins, and all riparian States?

Yes /No

(c) Which States (including your own) are member of the joint body? (*Please list*): **Russia and Finland**

(d) Does the joint body have any of the following features (*please tick the ones applicable*)?

A secretariat

If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (*Please describe*): [fill in]

A subsidiary body or bodies

Please list (*e.g., working groups on specific topics*): Working Group on Integrated water Resources management and Working Group on Water Protection

Other features (*please list*): [fill in]

- (e) What are the tasks and activities of this joint body (art. 9, para. 2)?<sup>g</sup>
- |   |                            |
|---|----------------------------|
| Identification of pollution sources   | x <input type="checkbox"/> |
| Data collection and exchange  | x <input type="checkbox"/> |
| Joint monitoring  | x <input type="checkbox"/> |
| Maintenance of joint pollution inventories  | x <input type="checkbox"/> |
| Setting emission limits   | <input type="checkbox"/>   |
| Elaboration of joint water quality objectives   | <input type="checkbox"/>   |
| Management and prevention of flood or drought risks   | x <input type="checkbox"/> |
| Preparedness for extreme events, e.g., common early warning and alarm procedures                  | x <input type="checkbox"/> |
| Water allocation and/or flow regulation   | <input type="checkbox"/>   |
| Policy development  | <input type="checkbox"/>   |
| Control of implementation   | x <input type="checkbox"/> |
| Exchange of experience between riparian States  | x <input type="checkbox"/> |
| Exchange of information on existing and planned uses of water and related installations           | x <input type="checkbox"/> |
| Settling of differences and conflicts   | x <input type="checkbox"/> |
| Consultations on planned measures   | x <input type="checkbox"/> |
| Exchange of information on best available technology  | x <input type="checkbox"/> |
| Participation in transboundary EIA  | x <input type="checkbox"/> |
| Development of river, lake or aquifer basin management or action plans                            |                            |
| Management of shared infrastructure   | <input type="checkbox"/>   |
| Addressing hydromorphological alterations   | <input type="checkbox"/>   |
| Climate change adaptation   | x <input type="checkbox"/> |
| Joint communication strategy  | x <input type="checkbox"/> |
| Basin-wide or joint public participation and consultation of, for example, basin management plans | <input type="checkbox"/>   |
| Joint resources to support transboundary cooperation  | <input type="checkbox"/>   |
| Capacity-building   | <input type="checkbox"/>   |
- Any other tasks (*please list*): [fill in]
- (f) What are the main difficulties and challenges that your country faces with the operation of the joint body, if any?
- |   |                          |
|---|--------------------------|
| Governance issues                             | <input type="checkbox"/> |
| <i>Please describe, if any:</i> [fill in]     |                          |
| Unexpected planning delays                    | <input type="checkbox"/> |
| <i>Please describe, if any:</i> [fill in]???? |                          |

---

<sup>g</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

Lack of resources

*Please describe, if true:* [fill in]

Lack of mechanism for implementing measures

*Please describe, if true:* [fill in]

Lack of effective measures

*Please describe, if true:* [fill in]

Unexpected extreme events

*Please describe, if any:* [fill in]

Lack of information and reliable forecasts

*Please describe, if any:* [fill in]

Others (*please list and describe, as appropriate*): [fill in]

(g) If not all riparian States are members of the joint body how does the body cooperate with them?

No cooperation

They have observer status

Other (*please describe*): [fill in]

(h) Does the joint body or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet? **Once per year**

(iii) What are the main achievements with regards to the joint body?: [fill in]

**Systematic monitoring of all agreed activities, and also development for improving the joint management of the shared river basin.**

(j) Are representatives of international organizations invited to the meetings of the joint body (or bodies) as observers?

Yes /No

(k) Did the joint body ever invite a coastal State to cooperate (art. 9, paras. 3 and 4)?

Yes /No

*If yes, please give details. If no, why not?:* [fill in] **The Baltic Sea has its own cooperative arrangements (Helsinki Commission)**

4. Is there a joint or coordinated management plan (such as an action plan or a common strategy) or have joint objectives been set specifically on the transboundary waters subject to cooperation (art. 9, para. 2 (f)) ?

Yes /No

*If yes, please provide further details:* [fill in] Control of diffuse pollution and restoration mechanisms

5. How is the transboundary basin, river, lake or aquifer protected, including the protection of ecosystems, in the context of sustainable and rational water use (art. 2, para. 2 (b), and art. 3, para. 1 (i))

Afforestation

Restoration of ecosystems

Environmental flow norms

Groundwater measures (e.g., protection zones)

Other measures (*please list*): [fill in] Control of diffusion pollution

6. (a) Does your country exchange information and data with other riparian States in the basin (art. 13)?

Yes /No

(b) If yes, on what subjects are information and data exchanged?

Environmental conditions (art. 13, para. (1) (a))

Research activities and application of best available techniques (arts. 5, 12 and 13, para. 1 (b))

Emission monitoring data (art. 13, para. 1 (c))

Planned measures taken to prevent, control or reduce transboundary impacts (art. 13, para. 1 (d))

Point source pollution sources

Diffuse pollution sources

Existing hydromorphological alterations (dams, etc.)

Discharges

Water abstractions

Future planned measures with transboundary impacts, such as infrastructure development

Other subjects (*please list*): [fill in]

(c) Is there a shared database or information platform?

Yes /No

(d) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* [fill in]

(e) What are the main difficulties and challenges to data exchange, if applicable? (*please describe*): [fill in]

(f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*): [fill in] **water flow predictions and emergency warnings, regulations**

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer (art. 11, para. 1)?

Yes /No

(a) If yes, what does the joint monitoring cover?

|  | Covered                             | Hydrological                        | Ecological               | Chemical                            |
|--|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| Border surface waters                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Surface waters in the entire basin     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Surface waters on the main watercourse | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Connected aquifers (or groundwaters)   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| Unconnected aquifers (or groundwaters) | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |

(b) If joint monitoring is carried out, how is this done?



- National monitoring stations connected through a network or common stations
- Joint and agreed methodologies
- Joint sampling
- Common monitoring network
- Common agreed parameters
- (c) Please describe the main achievements regarding joint monitoring, if any: **Long term trend from 1960's, reliable and comparable data from both parties**
- (d) Please describe any difficulties experienced with joint monitoring: [fill in]
8. Do the riparian States carry out joint assessment of the transboundary basin, river, lake or aquifer (art. 11)?  
Yes /No
- If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment: [fill in] **Once per year***
9. Have the riparian States agreed to use joint water quality standards?  
Yes /No
- If yes, is the basis an international or regional standard (please specify which) or has it been adapted from the national standards of the riparian States?: [fill in]*
10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution (art. 14)?
- Notification and communication
- Coordinated or joint alarm system for accidental water pollution
- Other (please list): [fill in]
- No measures
- If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]*
11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events (art. 14)?
- Notification and communication
- Coordinated or joint alarm system for floods
- Coordinated or joint alarm system for droughts
- Joint climate change adaptation strategy
- Joint disaster risk reduction strategy
- Other (please list): [fill in]
- No measures
- If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]*
12. Are procedures in place for mutual assistance in case of a critical situation (art. 15)?  
Yes /No
- If yes, please provide a brief summary: [fill in]*
13. Are the public or relevant stakeholders involved in transboundary water management in the basin, river, lake or aquifer? (art. 16)?

Yes /No

*If yes, how? (please tick all applicable) (Please note: If your country is a Party to the Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters (Aarhus Convention), you may refer to your country's report under that Convention.): ??*

Stakeholders have observer status in a joint body

*If yes, please specify the stakeholders for each joint body: [fill in]*

Availability of information to the public

Consultation on planned measures or river basin management plans<sup>h</sup>

Public involvement

Other (*please specify*): [fill in]

**Please remember to complete section II for each of the transboundary basins, rivers, lakes or aquifers. Please also remember to attach copies of agreements, if any.**

**Name of the transboundary basin, river, lake or aquifer, or group thereof, list of the riparian States, and country's share of the basin: Jänisjoki**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin (art. 9)?

One or more agreements or arrangements exist and are in force

Agreement or arrangement developed but not in force

Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement or agreements or arrangements:*

Agreement between the Republic of Finland and the Union of Soviet Socialist Republics concerning Frontier Watercourses

Agreement or arrangement is under development

No agreement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body for the transboundary basin, river, lake or aquifer then jump to question 4; if there is no agreement, but a joint body then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, river, lake or aquifer or group of basins or sub-basins**

2. (a) Does this agreement or arrangement specify the basin area subject to cooperation?

Yes /No

<sup>h</sup> Or, where applicable, aquifer management plans.

If yes, does it cover the entire basin, or group of basins, and all riparian States?

Yes /No

If not, what does it cover?: [fill in]

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): Finland and Russia

(b) Are aquifers (or groundwater bodies) covered by the agreement/arrangement?

Yes /No

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

Agriculture

Transport (e.g., navigation)

Households

Energy: hydropower and other energy types

Tourism

Nature protection

Other (please list): [fill in]

(d) What topics or subjects of cooperation are included in the agreement or arrangement (art. 9)?

**Procedural and institutional issues**

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance (art. 15)

**Topics of cooperation**

Joint vision and management objectives

Joint significant water management issues

Navigation

Environmental protection (ecosystem)

Water quality

Water quantity or allocation

Cooperation in addressing floods

- Cooperation in addressing droughts x
- Climate change adaptation x

**Monitoring and exchange**

- Joint assessments x
- Data collection and exchange (art. 13) x
- Joint monitoring (art. 11) x
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures (art. 14) x
- Exchange of experience between riparian States x
- Exchange of information on planned measures x

**Joint planning and management**

- Development of joint regulations on specific topics
- Development of international or joint river, lake or aquifer basin management or action plans
- Management of shared infrastructure
- Development of shared infrastructure
- Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any (*please describe, if applicable*): [fill in]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?: [fill in]

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): [fill in]

3. Is your country a member of an operational joint body or joint bodies for this agreement/arrangement (art. 9)?

Yes x /No

*If no, why not? (please explain):* [fill in]

**Where there is a joint body (or bodies)**

(a) If there is a joint body, which kind of joint body (*please tick one*)?

- Plenipotentiaries
- Bilateral commission x
- Basin or similar commission
- Other (*please describe*): [fill in]

(b) Does the joint body cover the entire transboundary basin or sub-basin, river, lake or aquifer, or group of basins, and all riparian States?

Yes x /No

(c) Which States (including your own) are member of the joint body? (*Please list*): **Russia and Finland**

(d) Does the joint body have any of the following features (*please tick the ones applicable*)?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):* [fill in]

A subsidiary body or bodies

*Please list (e.g., working groups on specific topics):* Working Group on Integrated water Resources management and Working Group on Water Protection

Other features (*please list*): [fill in]

(e) What are the tasks and activities of this joint body (art. 9, para. 2)?<sup>i</sup>

Identification of pollution sources

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

Setting emission limits

Elaboration of joint water quality objectives

Management and prevention of flood or drought risks

Preparedness for extreme events, e.g., common early warning and alarm procedures

Water allocation and/or flow regulation

Policy development

Control of implementation

Exchange of experience between riparian States

Exchange of information on existing and planned uses of water and related installations

Settling of differences and conflicts

Consultations on planned measures

Exchange of information on best available technology

Participation in transboundary EIA

Development of river, lake or aquifer basin management or action plans

Management of shared infrastructure

Addressing hydromorphological alterations

Climate change adaptation

Joint communication strategy

Basin-wide or joint public participation and consultation of, for example, basin management plans

Joint resources to support transboundary cooperation

<sup>i</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

Capacity-building

Any other tasks (*please list*): [fill in]

(f) What are the main difficulties and challenges that your country faces with the operation of the joint body, if any?

Governance issues

*Please describe, if any:* [fill in]

Unexpected planning delays

*Please describe, if any:* [fill in]

Lack of resources

*Please describe, if true:* [fill in]

Lack of mechanism for implementing measures

*Please describe, if true:* [fill in]

Lack of effective measures

*Please describe, if true:* [fill in]

Unexpected extreme events

*Please describe, if any:* [fill in]

Lack of information and reliable forecasts

*Please describe, if any:* [fill in]

Others (*please list and describe, as appropriate*): [fill in]

(g) If not all riparian States are members of the joint body how does the body cooperate with them?

No cooperation

They have observer status

Other (*please describe*): [fill in]

(h) Does the joint body or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet? **Once per year**

(iv) What are the main achievements with regards to the joint body?: [fill in]

**Systematic monitoring of all agreed activities, and also development for improving the joint management of the shared river basin.**

(j) Are representatives of international organizations invited to the meetings of the joint body (or bodies) as observers?

Yes /No

(k) Did the joint body ever invite a coastal State to cooperate (art. 9, paras. 3 and 4)?

Yes /No

*If yes, please give details. If no, why not?:* [fill in] **The Jänisjoki river basin discharges to the Lake Ladoga not to the Sea**

4. Is there a joint or coordinated management plan (such as an action plan or a common strategy) or have joint objectives been set specifically on the transboundary waters subject to cooperation (art. 9, para. 2 (f)) ?

Yes /No

*If yes, please provide further details:* [fill in] Joint flood control

5. How is the transboundary basin, river, lake or aquifer protected, including the protection of ecosystems, in the context of sustainable and rational water use (art. 2, para. 2 (b), and art. 3, para. 1 (i))

Afforestation

Restoration of ecosystems

Environmental flow norms

Groundwater measures (e.g., protection zones)

Other measures (*please list*): [fill in]

6. (a) Does your country exchange information and data with other riparian States in the basin (art. 13)?

Yes /No

- (b) If yes, on what subjects are information and data exchanged?

Environmental conditions (art. 13, para. (1) (a))

Research activities and application of best available techniques (arts. 5, 12 and 13, para. 1 (b))

Emission monitoring data (art. 13, para. 1 (c))

Planned measures taken to prevent, control or reduce transboundary impacts (art. 13, para. 1 (d))

Point source pollution sources

Diffuse pollution sources

Existing hydromorphological alterations (dams, etc.)

Discharges

Water abstractions

Future planned measures with transboundary impacts, such as infrastructure development

Other subjects (*please list*): [fill in]

- (c) Is there a shared database or information platform?

Yes /No

- (d) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* [fill in]

- (e) What are the main difficulties and challenges to data exchange, if applicable? (*please describe*): [fill in]

- (f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*): [fill in] **water flow predictions and emergency warnings, regulations**

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer (art. 11, para. 1)?

Yes /No

(a) If yes, what does the joint monitoring cover?

|  | Covered                    | Hydrological               | Ecological               | Chemical                 |
|--|----------------------------|----------------------------|--------------------------|--------------------------|
| Border surface waters                  | x <input type="checkbox"/> | x <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Surface waters in the entire basin     | x <input type="checkbox"/> | x <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Surface waters on the main watercourse | x <input type="checkbox"/> | x <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Connected aquifers (or groundwaters)   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> |
| Unconnected aquifers (or groundwaters) | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> |

(b) If joint monitoring is carried out, how is this done?

|   |                            |
|---|----------------------------|
| National monitoring stations connected through a network or common stations | x <input type="checkbox"/> |
| Joint and agreed methodologies  | <input type="checkbox"/>   |
| Joint sampling  | <input type="checkbox"/>   |
| Common monitoring network   | x <input type="checkbox"/> |
| Common agreed parameters  | <input type="checkbox"/>   |

(c) Please describe the main achievements regarding joint monitoring, if any:

(d) Please describe any difficulties experienced with joint monitoring: [fill in]

8. Do the riparian States carry out joint assessment of the transboundary basin, river, lake or aquifer (art. 11)?

Yes x/No

*If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment: [fill in] Once per year*

9. Have the riparian States agreed to use joint water quality standards?

Yes /No x

*If yes, is the basis an international or regional standard (please specify which) or has it been adapted from the national standards of the riparian States?: [fill in]*

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution (art. 14)?

|  |                            |
|--|----------------------------|
| Notification and communication                                   | x <input type="checkbox"/> |
| Coordinated or joint alarm system for accidental water pollution | <input type="checkbox"/>   |
| Other (please list): [fill in]                                   |                            |
| No measures  | <input type="checkbox"/>   |

*If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]*

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events (art. 14)?

|  |                            |
|--|----------------------------|
| Notification and communication                 | x <input type="checkbox"/> |
| Coordinated or joint alarm system for floods   | x <input type="checkbox"/> |
| Coordinated or joint alarm system for droughts | x <input type="checkbox"/> |
| Joint climate change adaptation strategy       | <input type="checkbox"/>   |
| Joint disaster risk reduction strategy         | <input type="checkbox"/>   |
| Other (please list): [fill in]                 |                            |



No measures

*If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]*

12. Are procedures in place for mutual assistance in case of a critical situation (art. 15)?

Yes /No

*If yes, please provide a brief summary: [fill in]*

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, river, lake or aquifer? (art. 16)?

Yes /No

*If yes, how? (please tick all applicable) (Please note: If your country is a Party to the Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters (Aarhus Convention), you may refer to your country's report under that Convention.): ??*

Stakeholders have observer status in a joint body

*If yes, please specify the stakeholders for each joint body: [fill in]*

Availability of information to the public

Consultation on planned measures or river basin management plans<sup>j</sup>

Public involvement

Other (*please specify*): [fill in]

**Please remember to complete section II for each of the transboundary basins, rivers, lakes or aquifers. Please also remember to attach copies of agreements, if any.**

<sup>j</sup> Or, where applicable, aquifer management plans.

**Name of the transboundary basin, river, lake or aquifer, or group thereof, list of the riparian States, and country's share of the basin:** Group of River Basins: Tuulomajoki, Kemijoki, Koutajoki, Vienan Kemi, Oulujoki, Tohmajoki, Kilpeenjoki, Soskuanjoki, Tervajoki, Vilajoki, Santajoki, Vaalimaanjoki

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin (art. 9)?

One or more agreements or arrangements exist and are in force

Agreement or arrangement developed but not in force

Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement or agreements or arrangements:*

Agreement between the Republic of Finland and the Union of Soviet Socialist Republics concerning Frontier Watercourses

Agreement or arrangement is under development

No agreement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body for the transboundary basin, river, lake or aquifer then jump to question 4; if there is no agreement, but a joint body then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, river, lake or aquifer or group of basins or sub-basins**

2. (a) Does this agreement or arrangement specify the basin area subject to cooperation?

Yes /No

If yes, does it cover the entire basin, or group of basins, and all riparian States?

Yes /No

If not, what does it cover?: [fill in]

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): Finland and Russia

- (b) Are aquifers (or groundwater bodies) covered by the agreement/arrangement?

Yes /No

- (c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

- Industry
- Agriculture x
- Transport (e.g., navigation)
- Households x
- Energy: hydropower and other energy types
- Tourism
- Nature protection
- Other (*please list*): [fill in] **Nature protection: migratory fish**

(d) What topics or subjects of cooperation are included in the agreement or arrangement (art. 9)?

**Procedural and institutional issues**

- Dispute and conflict prevention and resolution x
- Institutional cooperation (joint bodies) x
- Consultation on planned measures x
- Mutual assistance (art. 15)

**Topics of cooperation**

- Joint vision and management objectives x
- Joint significant water management issues x
- Navigation
- Environmental protection (ecosystem)
- Water quality
- Water quantity or allocation x
- Cooperation in addressing floods x
- Cooperation in addressing droughts x
- Climate change adaptation

**Monitoring and exchange**

- Joint assessments
- Data collection and exchange (art. 13)
- Joint monitoring (art. 11)
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures (art. 14)
- Exchange of experience between riparian States
- Exchange of information on planned measures x

**Joint planning and management**

- Development of joint regulations on specific topics
- Development of international or joint river, lake or aquifer basin management or action plans

Management of shared infrastructure

Development of shared infrastructure

Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any (*please describe, if applicable*): [fill in]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?: [fill in]

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): [fill in]

3. Is your country a member of an operational joint body or joint bodies for this agreement/arrangement (art. 9)?

Yes x/No

*If no, why not? (please explain):* [fill in]

#### Where there is a joint body (or bodies)

(a) If there is a joint body, which kind of joint body (*please tick one*)?

Plenipotentiaries

Bilateral commission x

Basin or similar commission

Other (*please describe*): [fill in]

(b) Does the joint body cover the entire transboundary basin or sub-basin, river, lake or aquifer, or group of basins, and all riparian States?

Yes x/No

(c) Which States (including your own) are member of the joint body? (*Please list*): **Russia and Finland**

(d) Does the joint body have any of the following features (*please tick the ones applicable*)?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):* [fill in]

A subsidiary body or bodies x

*Please list (e.g., working groups on specific topics):* Working Group on Integrated water Resources management and Working Group on Water Protection

Other features (*please list*): [fill in]

(e) What are the tasks and activities of this joint body (art. 9, para. 2)?<sup>k</sup>

Identification of pollution sources

Data collection and exchange x

---

<sup>k</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

- Joint monitoring
- Maintenance of joint pollution inventories
- Setting emission limits
- Elaboration of joint water quality objectives
- Management and prevention of flood or drought risks x
- Preparedness for extreme events, e.g., common early warning and alarm procedures x
- Water allocation and/or flow regulation
- Policy development
- Control of implementation
- Exchange of experience between riparian States
- Exchange of information on existing and planned uses of water and related installations
- Settling of differences and conflicts
- Consultations on planned measures x
- Exchange of information on best available technology
- Participation in transboundary EIA x
- Development of river, lake or aquifer basin management or action plans
- Management of shared infrastructure
- Addressing hydromorphological alterations x
- Climate change adaptation
- Joint communication strategy
- Basin-wide or joint public participation and consultation of, for example, basin management plans
- Joint resources to support transboundary cooperation
- Capacity-building
- Any other tasks (*please list*): [fill in]

(f) What are the main difficulties and challenges that your country faces with the operation of the joint body, if any?

- Governance issues   
*Please describe, if any:* [fill in]
- Unexpected planning delays   
*Please describe, if any:* [fill in]
- Lack of resources   
*Please describe, if true:* [fill in]
- Lack of mechanism for implementing measures   
*Please describe, if true:* [fill in]
- Lack of effective measures   
*Please describe, if true:* [fill in]
- Unexpected extreme events

Please describe, if any: [fill in]

Lack of information and reliable forecasts

Please describe, if any: [fill in]

Others (please list and describe, as appropriate): [fill in]

(g) If not all riparian States are members of the joint body how does the body cooperate with them?

No cooperation

They have observer status

Other (please describe): [fill in]

(h) Does the joint body or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet? **Once per year**

(v) What are the main achievements with regards to the joint body?: [fill in]

(j) Are representatives of international organizations invited to the meetings of the joint body (or bodies) as observers?

Yes /No

(k) Did the joint body ever invite a coastal State to cooperate (art. 9, paras. 3 and 4)?

Yes /No

If yes, please give details. If no, why not?: [fill in] **No relevant impacts on coastal waters**

4. Is there a joint or coordinated management plan (such as an action plan or a common strategy) or have joint objectives been set specifically on the transboundary waters subject to cooperation (art. 9, para. 2 (f)) ?

Yes /No

If yes, please provide further details: [fill in] To keep these rivers in reference conditions and improve the conditions for migratory fish

5. How is the transboundary basin, river, lake or aquifer protected, including the protection of ecosystems, in the context of sustainable and rational water use (art. 2, para. 2 (b), and art. 3, para. 1 (i))

Afforestation

Restoration of ecosystems

Environmental flow norms

Groundwater measures (e.g., protection zones)

Other measures (please list): [fill in]

6. (a) Does your country exchange information and data with other riparian States in the basin (art. 13)?

Yes /No

(b) If yes, on what subjects are information and data exchanged?

Environmental conditions (art. 13, para. (1) (a))

Research activities and application of best available techniques (arts. 5, 12 and 13, para. 1 (b))

Emission monitoring data (art. 13, para. 1 (c))

- Planned measures taken to prevent, control or reduce transboundary impacts (art. 13, para. 1 (d))
- Point source pollution sources
- Diffuse pollution sources
- Existing hydromorphological alterations (dams, etc.)
- Discharges
- Water abstractions
- Future planned measures with transboundary impacts, such as infrastructure development
- Other subjects (*please list*): [fill in]

(c) Is there a shared database or information platform?

Yes /No

(d) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* [fill in]

(e) What are the main difficulties and challenges to data exchange, if applicable? (*please describe*): [fill in]

(f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*): [fill in]

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer (art. 11, para. 1)?

Yes /No

(a) If yes, what does the joint monitoring cover?

|  | Covered                  | Hydrological             | Ecological               | Chemical                 |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Border surface waters                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Surface waters in the entire basin     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Surface waters on the main watercourse | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Connected aquifers (or groundwaters)   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Unconnected aquifers (or groundwaters) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

(b) If joint monitoring is carried out, how is this done?

- National monitoring stations connected through a network or common stations
- Joint and agreed methodologies
- Joint sampling
- Common monitoring network
- Common agreed parameters

(c) Please describe the main achievements regarding joint monitoring, if any:

(d) Please describe any difficulties experienced with joint monitoring: [fill in]

8. Do the riparian States carry out joint assessment of the transboundary basin, river, lake or aquifer (art. 11)?

Yes /No

If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment: [fill in] **Once per year**

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

If yes, is the basis an international or regional standard (please specify which) or has it been adapted from the national standards of the riparian States?: [fill in]

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution (art. 14)?

Notification and communication

Coordinated or joint alarm system for accidental water pollution

Other (please list): [fill in]

No measures

If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events (art. 14)?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (please list): [fill in]

No measures

If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]

12. Are procedures in place for mutual assistance in case of a critical situation (art. 15)?

Yes /No

If yes, please provide a brief summary: [fill in]

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, river, lake or aquifer? (art. 16)?

Yes /No

If yes, how? (please tick all applicable) (Please note: If your country is a Party to the Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters (Aarhus Convention), you may refer to your country's report under that Convention.): ??

Stakeholders have observer status in a joint body

If yes, please specify the stakeholders for each joint body: [fill in]

Availability of information to the public

Consultation on planned measures or river basin management plans<sup>1</sup>

Public involvement

<sup>1</sup> Or, where applicable, aquifer management plans.



## II. Questions for each transboundary basin, river, lake or aquifer

Please complete this second section for each transboundary basin, river, lake or aquifer, or for group of basins covered by the same agreement or arrangement and where conditions are similar. It might also be convenient to group basins or sub-basins for which your country's share is very small.<sup>m</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements<sup>n</sup> on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares the basin or aquifer or even prepare a joint report for shared basins. General information on transboundary water management at the national level should be provided in section I and not repeated here.

Please reproduce the whole section II with its questions for each transboundary basin, river, lake or aquifer, or group of basins for which you will provide a reply.

### Name of the transboundary basin, river, lake or aquifer, or group thereof, list of the riparian States, and country's share of the basin: **Tornionjoki River Basin, Finland and Sweden**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin (art. 9)?

One or more agreements or arrangements exist and are in force

Agreement or arrangement developed but not in force

Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement or agreements or arrangements:*

**Agreement between Finland and Sweden Concerning Transboundary Rivers (91/2010)**

Agreement or arrangement is under development

No agreement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body for the transboundary basin, river, lake or aquifer then jump to question 4; if there is no agreement, but a joint body then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, river, lake or aquifer or group of basins or sub-basins**

2. (a) Does this agreement or arrangement specify the basin area subject to cooperation?

Yes /No

If yes, does it cover the entire basin, or group of basins, and all riparian States?

Yes /No

If not, what does it cover?: [fill in]

---

<sup>m</sup> In principle, section 2 should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>n</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): **Finland and Sweden**

(b) Are aquifers (or groundwater bodies) covered by the agreement/arrangement?

Yes /No

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

Agriculture

Transport (e.g., navigation)

Households

Energy: hydropower and other energy types

Tourism

Nature protection

Other (please list): [fill in]

(d) What topics or subjects of cooperation are included in the agreement or arrangement (art. 9)?

**Procedural and institutional issues**

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance (art. 15)

**Topics of cooperation**

Joint vision and management objectives

Joint significant water management issues

Navigation

Environmental protection (ecosystem)

Water quality

Water quantity or allocation

Cooperation in addressing floods

Cooperation in addressing droughts

Climate change adaptation

**Monitoring and exchange**

- Joint assessments
- Data collection and exchange (art. 13)
- Joint monitoring (art. 11)
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures (art. 14)
- Exchange of experience between riparian States
- Exchange of information on planned measures

**Joint planning and management**

- Development of joint regulations on specific topics
- Development of international or joint river, lake or aquifer basin management or action plans
- Management of shared infrastructure
- Development of shared infrastructure

Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any (*please describe, if applicable*): **See chapter IV**

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?:

**See chapter IV**

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): **www.fsgk.se**

3. Is your country a member of an operational joint body or joint bodies for this agreement/arrangement (art. 9)?

Yes /No

*If no, why not? (please explain):* [fill in]

**Where there is a joint body (or bodies)**

(a) If there is a joint body, which kind of joint body (*please tick one*)?

Plenipotentiaries

Bilateral commission

Basin or similar commission

Other (*please describe*): [fill in]

(b) Does the joint body cover the entire transboundary basin or sub-basin, river, lake or aquifer, or group of basins, and all riparian States?

Yes /No

(c) Which States (including your own) are member of the joint body? (*Please list*): **Finland and Sweden**

(d) Does the joint body have any of the following features (*please tick the ones applicable*)?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):*

**A joint secretariat**

A subsidiary body or bodies

*Please list (e.g., working groups on specific topics): [fill in]*

Other features (*please list*): ]

**Each Party appoints three members to the Commission for a fixed time period, one of them from the government authority responsible for water issues and one from the municipality in the area of application of the Agreement, as well as one or several deputy members for each member. Each Party may appoint up to three permanent experts to assist the Commission. The Commission may also use other experts.**

(e) What are the tasks and activities of this joint body (art. 9, para. 2)?<sup>o</sup>

Identification of pollution sources

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

Setting emission limits

Elaboration of joint water quality objectives

Management and prevention of flood or drought risks

Preparedness for extreme events, e.g., common early warning and alarm procedures

Water allocation and/or flow regulation

Policy development

Control of implementation

Exchange of experience between riparian States

Exchange of information on existing and planned uses of water and related installations

Settling of differences and conflicts

Consultations on planned measures

Exchange of information on best available technology

Participation in transboundary EIA

Development of river, lake or aquifer basin management or action plans

Management of shared infrastructure

Addressing hydromorphological alterations

Climate change adaptation

Joint communication strategy

Basin-wide or joint public participation and consultation of, for example, basin management plans

<sup>o</sup> This may include tasks according to the agreement or tasks added by the joint body, or its

Joint resources to support transboundary cooperation

Capacity-building

Any other tasks (*please list*): **extract of agreement...**

- develop cooperation between the Parties in the water management area;
- promote cooperation between the authorities of the Parties in coordinating and reconciling programmes, plans and measures designed to reach the objectives for the status of the aquatic environment and monitoring the status of waters;
- promote the coordination of planning work by authorities and municipalities of the Parties to prevent flood and environmental damages in the transboundary rivers;
- promote the coordination and reconciliation of work by authorities and municipalities of the Parties relating to nature conservation plans for the transboundary rivers;
- see that the Parties communicate jointly on the programmes and plans referred to in this Article and hold joint hearings;
- adopt or reject proposals for programmes or plans concerning the water management area.
- The Commission shall monitor the application of this Agreement and the permit practices as well as draw the attention of the Parties to any needs to amend the Agreement.

(f) What are the main difficulties and challenges that your country faces with the operation of the joint body, if any?

Governance issues

*Please describe, if any:* [fill in]

Unexpected planning delays

*Please describe, if any:* [fill in]

Lack of resources

*Please describe, if true:* [fill in]

Lack of mechanism for implementing measures

*Please describe, if true:*

**The Transboundary River Commission is not the by its mandate an operative body in implementing the measures. The responsible bodies vary and are many.**

Lack of effective measures

*Please describe, if true:* [fill in]

Unexpected extreme events

*Please describe, if any:* [fill in]

Lack of information and reliable forecasts

*Please describe, if any:* [fill in]

Others (*please list and describe, as appropriate*): [fill in]

(g) If not all riparian States are members of the joint body how does the body cooperate with them?

No cooperation

They have observer status

Other (*please describe*): [fill in]

(h) Does the joint body or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet? 7-8 times/y

- (i) What are the main achievements with regards to the joint body?: ]

Cooperation over the border in Torne Valley has a long history and common water management projects assessing the shared water bodies have eased the implementation of the agreement, e.g. water management projects (TRIWA I-III), local presence and activities by the Transboundary River Commission to openly inform and serve the stakeholders of the region. Trust between the Commission and the stakeholders including the national and regional state officials, municipalities and other interests groups. Communication and arrangement of open forums for discussion (Water Parliament events, projects, dialogues and meetings).

- (j) Are representatives of international organizations invited to the meetings of the joint body (or bodies) as observers?

Yes /No

- (k) Did the joint body ever invite a coastal State to cooperate (art. 9, paras. 3 and 4)?

Yes /No

*If yes, please give details. If no, why not?* There has not been issues in need for cooperation with the coastal states (which are in southern part of the Baltic Sea)

4. Is there a joint or coordinated management plan (such as an action plan or a common strategy) or have joint objectives been set specifically on the transboundary waters subject to cooperation (art. 9, para. 2 (f)) ?

Yes /No

*If yes, please provide further details:* A joint summary of the Finnish and Swedish management plans coordinated by the regional water authorities and the Transboundary River Commission in cooperation. Published in 2016 in four languages as print and e-publication, information efforts within the region to various stakeholders. National RBMPs and common Roof Plan: Tornionjoen kansainvälinen vesienhoitoalue. Rajatonta vesienhoitoa 2016-2021. <http://www.fsgk.se/Torneaelvs-rapport-2nd-upplaga-52s.-A4-SWE-2.pdf>

5. How is the transboundary basin, river, lake or aquifer protected, including the protection of ecosystems, in the context of sustainable and rational water use (art. 2, para. 2 (b), and art. 3, para. 1 (i)) ?

Afforestation

Restoration of ecosystems

Environmental flow norms

Groundwater measures (e.g., protection zones)

Other measures (*please list*): Water basin is part of the Natura 2000 network.

6. (a) Does your country exchange information and data with other riparian States in the basin (art. 13)?

Yes /No

- (b) If yes, on what subjects are information and data exchanged?

Environmental conditions (art. 13, para. (1) (a))

Research activities and application of best available techniques (arts. 5, 12 and 13, para. 1 (b))

Emission monitoring data (art. 13, para. 1 (c))

- Planned measures taken to prevent, control or reduce transboundary impacts (art. 13, para. 1 (d))
- Point source pollution sources
- Diffuse pollution sources
- Existing hydromorphological alterations (dams, etc.)
- Discharges
- Water abstractions
- Future planned measures with transboundary impacts, such as infrastructure development
- Other subjects (*please list*): [fill in]

(c) Is there a shared database or information platform?

Yes /No

(d) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* **Partly common national databases: [paikkatieto.ymparisto.fi/vesikartta](http://paikkatieto.ymparisto.fi/vesikartta).**

(e) What are the main difficulties and challenges to data exchange, if applicable? (*please describe*): [fill in]

(f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*): **Availability of up-to date information. Decisions and management actions based on relevant data.**

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer (art. 11, para. 1)?

Yes /No

(a) If yes, what does the joint monitoring cover?

|  | Covered                             | Hydrological                        | Ecological                          | Chemical                            |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Border surface waters                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Surface waters in the entire basin     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Surface waters on the main watercourse | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Connected aquifers (or groundwaters)   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Unconnected aquifers (or groundwaters) | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

Joint and agreed methodologies

Joint sampling

Common monitoring network

Common agreed parameters

(c) Please describe the main achievements regarding joint monitoring, if any: [fill in]

- (d) Please describe any difficulties experienced with joint monitoring: [fill in]
8. Do the riparian States carry out joint assessment of the transboundary basin, river, lake or aquifer (art. 11)?  
 Yes /No
- If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment: A joint summary of the Finnish and Swedish management plans coordinated by the regional water authorities and the Transboundary River Commission in cooperation. Published in 2016 in four languages as print and e-publication, information efforts within the region to various stakeholders. National RBMPs and common Roof Plan: Tornionjoen kansainvälinen vesienhoitoalue. Rajatonta vesienhoitoa 2016-2021. <http://www.fsgk.se/Torneaelvs-rapport-2nd-upplaga-52s.-A4-SWE-2.pdf>*
9. Have the riparian States agreed to use joint water quality standards?  
 Yes /No
- If yes, is the basis an international or regional standard (please specify which) or has it been adapted from the national standards of the riparian States?: [fill in]*
10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution (art. 14)?
- |  |                                     |
|--|-------------------------------------|
| Notification and communication                                   | <input checked="" type="checkbox"/> |
| Coordinated or joint alarm system for accidental water pollution | <input type="checkbox"/>            |
| Other ( <i>please list</i> ): [fill in]                          |                                     |
| No measures  | <input type="checkbox"/>            |
- If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]*
11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events (art. 14)?
- |  |                                     |
|--|-------------------------------------|
| Notification and communication                 | <input type="checkbox"/>            |
| Coordinated or joint alarm system for floods   | <input checked="" type="checkbox"/> |
| Coordinated or joint alarm system for droughts | <input type="checkbox"/>            |
| Joint climate change adaptation strategy       | <input type="checkbox"/>            |
| Joint disaster risk reduction strategy         | <input type="checkbox"/>            |
| Other ( <i>please list</i> ): [fill in]        |                                     |
| No measures                                    | <input type="checkbox"/>            |
- If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]*
12. Are procedures in place for mutual assistance in case of a critical situation (art. 15)?  
 Yes /No
- If yes, please provide a brief summary: [fill in]*
13. Are the public or relevant stakeholders involved in transboundary water management in the basin, river, lake or aquifer? (art. 16)?  
 Yes /No
- If yes, how? (please tick all applicable) (Please note: If your country is a Party to the Convention on Access to Information, Public Participation in Decision-making*



and Access to Justice in Environmental Matters (Aarhus Convention), you may refer to your country's report under that Convention.):

Stakeholders have observer status in a joint body

If yes, please specify the stakeholders for each joint body: [fill in]

Availability of information to the public

Consultation on planned measures or river basin management plans<sup>p</sup>

Public involvement

Other (please specify): [fill in]

The joint body arranges discussion forums for the local and regional stakeholders, informs via various channels, raises awareness, and carries out projects for information coordination.

## II. Questions for each transboundary basin, river, lake or aquifer

Please complete this second section for each transboundary basin, river, lake or aquifer, or for group of basins covered by the same agreement or arrangement and where conditions are similar. It might also be convenient to group basins or sub-basins for which your country's share is very small.<sup>q</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements<sup>r</sup> on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares the basin or aquifer or even prepare a joint report for shared basins. General information on transboundary water management at the national level should be provided in section I and not repeated here.

Please reproduce the whole section II with its questions for each transboundary basin, river, lake or aquifer, or group of basins for which you will provide a reply.

**Name of the transboundary basin, river, lake or aquifer, or group thereof, list of the riparian States, and country's share of the basin: Teno River, Näätämö River and Uutua River; Finland and Norway.**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin (art. 9)?

One or more agreements or arrangements exist and are in force

Agreement or arrangement developed but not in force

Agreement or arrangement developed, but not in force for all riparians

Please insert the name of the agreement or agreements or arrangements:

- Agreement concerning the Finnish-Norwegian Transboundary Water Commission (32/1981)

- Agreement concerning the Finnish-Norwegian River Basin District (50/2014)

- Memorandum of Understanding pursuant to the Agreement on the Finnish-Norwegian River Basin District

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<sup>q</sup> In principle, section 2 should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>r</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

Agreement or arrangement is under development

No agreement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body for the transboundary basin, river, lake or aquifer then jump to question 4; if there is no agreement, but a joint body then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, river, lake or aquifer or group of basins or sub-basins**

2. (a) Does this agreement or arrangement specify the basin area subject to cooperation?

Yes /No

If yes, does it cover the entire basin, or group of basins, and all riparian States?

Yes /No

If not, what does it cover?: **In addition agreements cover Paatsjoki River Basin, which is reported separately.**

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): **Finland and Norway**

(b) Are aquifers (or groundwater bodies) covered by the agreement/arrangement?

Yes /No

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

Agriculture

Transport (e.g., navigation)

Households

Energy: hydropower and other energy types

Tourism

Nature protection

Other (please list): [fill in]

(d) What topics or subjects of cooperation are included in the agreement or arrangement (art. 9)?

**Procedural and institutional issues**

- Dispute and conflict prevention and resolution
- Institutional cooperation (joint bodies)
- Consultation on planned measures
- Mutual assistance (art. 15)

**Topics of cooperation**

- Joint vision and management objectives
- Joint significant water management issues
- Navigation
- Environmental protection (ecosystem)
- Water quality
- Water quantity or allocation
- Cooperation in addressing floods
- Cooperation in addressing droughts
- Climate change adaptation

**Monitoring and exchange**

- Joint assessments
- Data collection and exchange (art. 13)
- Joint monitoring (art. 11)
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures (art. 14)
- Exchange of experience between riparian States
- Exchange of information on planned measures

**Joint planning and management**

- Development of joint regulations on specific topics
- Development of international or joint river, lake or aquifer basin management or action plans
- Management of shared infrastructure
- Development of shared infrastructure

Other (*please list*):

The Finnish-Norwegian Transboundary Water Commission is a body for co-operation and communication between the states. The commission gives propositions and recommendations on matters concerning the transboundary water bodies, for example: water quality monitoring, fishing, water level regulation or construction that has impact on the waters. Operating area covers the water bodies that lie on the border and the watersheds they belong to. Members include representatives from Finnish and Norwegian environmental administration and municipalities in the regions. Members are appointed by their governments.

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any (*please describe, if applicable*):

Challenges to cooperation arise from different legislation and guidance in water management and protection as well as resources for transboundary water cooperation.

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?:

The economic, environmental, social and political benefits of transboundary water cooperation are based on e.g. improved water quality, such as improved quality for outdoor recreation (e.g. swimming, boating, lake and river fishing), reduced or avoided treatment costs of water for further use (e.g. for hydropower, drinking water) and avoided health risks from polluted water. The benefits from watershed or the quality of water ecosystems includes improved biodiversity and improved flood control. According to our experience we wish to highlight that the cooperation has led to benefits in joint water management with a focus on needs of the local and regional stakeholders.

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*):

Agreement concerning the Finnish-Norwegian Transboundary Water Commission:

[http://www.finlex.fi/fi/sopimukset/sopsteksti/1981/19810032/19810032\\_2](http://www.finlex.fi/fi/sopimukset/sopsteksti/1981/19810032/19810032_2)

Agreement concerning the Finnish-Norwegian River Basin District:

<https://www.edilex.fi/sopimussarja/20140050.pdf>

Memorandum of Understanding pursuant to the Agreement on the Finnish-Norwegian River Basin District (Appendix).

3. Is your country a member of an operational joint body or joint bodies for this agreement/arrangement (art. 9)?

Yes /No

*If no, why not? (please explain):* [fill in]

**Where there is a joint body (or bodies)**

(a) If there is a joint body, which kind of joint body (*please tick one*)?

Plenipotentiaries

Bilateral commission

Basin or similar commission

Other (*please describe*): [fill in]

(b) Does the joint body cover the entire transboundary basin or sub-basin, river, lake or aquifer, or group of basins, and all riparian States?

Yes /No

(c) Which States (including your own) are member of the joint body? (*Please list*): **Finland and Norway**

(d) Does the joint body have any of the following features (*please tick the ones applicable*)?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):*

The Commission has part-time secretaries in both countries: Lapland Centre for Economic Development, Transport and the Environment in Finland, and the County Governor of Finnmark in Norway.

A subsidiary body or bodies

Please list (e.g., working groups on specific topics): [fill in]

Other features (please list):

Experts are heard in meetings before decision making on the initiatives and recommendations.

- (e) What are the tasks and activities of this joint body (art. 9, para. 2)?<sup>s</sup>
- |   |                                     |
|---|-------------------------------------|
| Identification of pollution sources   | <input checked="" type="checkbox"/> |
| Data collection and exchange  | <input checked="" type="checkbox"/> |
| Joint monitoring  | <input checked="" type="checkbox"/> |
| Maintenance of joint pollution inventories  | <input type="checkbox"/>            |
| Setting emission limits   | <input type="checkbox"/>            |
| Elaboration of joint water quality objectives   | <input checked="" type="checkbox"/> |
| Management and prevention of flood or drought risks   | <input checked="" type="checkbox"/> |
| Preparedness for extreme events, e.g., common early warning and alarm procedures                  | <input type="checkbox"/>            |
| Water allocation and/or flow regulation   | <input type="checkbox"/>            |
| Policy development  | <input type="checkbox"/>            |
| Control of implementation   | <input checked="" type="checkbox"/> |
| Exchange of experience between riparian States  | <input checked="" type="checkbox"/> |
| Exchange of information on existing and planned uses of water and related installations           | <input checked="" type="checkbox"/> |
| Settling of differences and conflicts   | <input checked="" type="checkbox"/> |
| Consultations on planned measures   | <input checked="" type="checkbox"/> |
| Exchange of information on best available technology  | <input type="checkbox"/>            |
| Participation in transboundary EIA  | <input checked="" type="checkbox"/> |
| Development of river, lake or aquifer basin management or action plans                            | <input checked="" type="checkbox"/> |
| Management of shared infrastructure   | <input type="checkbox"/>            |
| Addressing hydromorphological alterations   | <input type="checkbox"/>            |
| Climate change adaptation   | <input checked="" type="checkbox"/> |
| Joint communication strategy  | <input type="checkbox"/>            |
| Basin-wide or joint public participation and consultation of, for example, basin management plans | <input checked="" type="checkbox"/> |
| Joint resources to support transboundary cooperation  | <input type="checkbox"/>            |
| Capacity-building   | <input type="checkbox"/>            |

<sup>s</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

Any other tasks (*please list*): [fill in]

(f) What are the main difficulties and challenges that your country faces with the operation of the joint body, if any?

Governance issues

*Please describe, if any:* [fill in]

Unexpected planning delays

*Please describe, if any:* [fill in]

Lack of resources

*Please describe, if true:* [fill in]

Lack of mechanism for implementing measures

*Please describe, if true:* [fill in]

Lack of effective measures

*Please describe, if true:* [fill in]

Unexpected extreme events

*Please describe, if any:* [fill in]

Lack of information and reliable forecasts

*Please describe, if any:* [fill in]

Others (*please list and describe, as appropriate*): [fill in]

Challenges to cooperation are found from differences between member states in term of socio-economic development, capacity to manage water resources, infrastructure and political orientation and institutional and legal context. In the context of transboundary water cooperation political will and commitment are important preconditions for successful cooperation in all aspects of cooperation.

(g) If not all riparian States are members of the joint body how does the body cooperate with them?

No cooperation

They have observer status

Other (*please describe*): [fill in]

(h) Does the joint body or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet? **The Commission meets at least once a year.**

(i) What are the main achievements with regards to the joint body?: [fill in]

The economic, environmental, social and political benefits of transboundary water cooperation are based on e.g. improved water quality, such as improved quality for outdoor recreation (e.g. swimming, boating, lake and river fishing), reduced or avoided treatment costs of water for further use (e.g. for hydropower, drinking water) and avoided health risks from polluted water. The benefits from watershed or the quality of water ecosystems includes improved biodiversity and improved flood control. According to our experience, we wish to highlight that the cooperation has led to benefits in joint water management with a focus on needs of the local and regional stakeholders.

(j) Are representatives of international organizations invited to the meetings of the joint body (or bodies) as observers?

Yes /No

(k) Did the joint body ever invite a coastal State to cooperate (art. 9, paras. 3 and 4)?

Yes /No

*If yes, please give details. If no, why not?:*

4. Is there a joint or coordinated management plan (such as an action plan or a common strategy) or have joint objectives been set specifically on the transboundary waters subject to cooperation (art. 9, para. 2 (f)) ?

Yes /No

*If yes, please provide further details:*

**Joint water management of the Finnish-Norwegian river basin district (2016-2021) Tana, Neiden and Pasvik catchment areas in Finland and Norway.**

5. How is the transboundary basin, river, lake or aquifer protected, including the protection of ecosystems, in the context of sustainable and rational water use (art. 2, para. 2 (b), and art. 3, para. 1 (i)) ?

Afforestation

Restoration of ecosystems

Environmental flow norms

Groundwater measures (e.g., protection zones)

Other measures (*please list*): [fill in]

6. (a) Does your country exchange information and data with other riparian States in the basin (art. 13)?

Yes /No

(b) If yes, on what subjects are information and data exchanged?

Environmental conditions (art. 13, para. (1) (a))

Research activities and application of best available techniques (arts. 5, 12 and 13, para. 1 (b))

Emission monitoring data (art. 13, para. 1 (c))

Planned measures taken to prevent, control or reduce transboundary impacts (art. 13, para. 1 (d))

Point source pollution sources

Diffuse pollution sources

Existing hydromorphological alterations (dams, etc.)

Discharges

Water abstractions

Future planned measures with transboundary impacts, such as infrastructure development

Other subjects (*please list*): [fill in]

(c) Is there a shared database or information platform?

Yes /No

(d) Is the database publicly available?

Yes /No

*If yes, please provide the web address:*

**There isn't a shared database, but both countries have their own database.**

(e) What are the main difficulties and challenges to data exchange, if applicable?  
(please describe): **There isn't a common database for monitoring data.**

(f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (please describe): [fill in]

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer (art. 11, para. 1)?

Yes /No

(a) If yes, what does the joint monitoring cover?

|  | Covered?                            | Hydrological                        | Ecological                          | Chemical                            |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Border surface waters                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Surface waters in the entire basin     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Surface waters on the main watercourse | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Connected aquifers (or groundwaters)   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Unconnected aquifers (or groundwaters) | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |

(b) If joint monitoring is carried out, how is this done?

- National monitoring stations connected through a network or common stations
- Joint and agreed methodologies
- Joint sampling
- Common monitoring network
- Common agreed parameters

(c) Please describe the main achievements regarding joint monitoring, if any: [fill in]

(d) Please describe any difficulties experienced with joint monitoring: [fill in]

8. Do the riparian States carry out joint assessment of the transboundary basin, river, lake or aquifer (art. 11)?

Yes /No

*If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment: - Joint water management of the Finnish-Norwegian river basin district 2016-2021 and 2<sup>nd</sup> National RBMPs adopted 2015 on Finnish side.*

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

*If yes, is the basis an international or regional standard (please specify which) or has it been adapted from the national standards of the riparian States?: [fill in]*

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution (art. 14)?

- Notification and communication
- Coordinated or joint alarm system for accidental water pollution



Other (please list): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events (art. 14)?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (please list): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

12. Are procedures in place for mutual assistance in case of a critical situation (art. 15)?

Yes /No

*If yes, please provide a brief summary:* [fill in]

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, river, lake or aquifer? (art. 16)?

Yes /No

*If yes, how? (please tick all applicable) (Please note: If your country is a Party to the Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters (Aarhus Convention), you may refer to your country's report under that Convention.):*

Stakeholders have observer status in a joint body

*If yes, please specify the stakeholders for each joint body:* [fill in]

Availability of information to the public

Consultation on planned measures or river basin management plans<sup>t</sup>

Public involvement

Other (please specify): [fill in]

## II. Questions for each transboundary basin, river, lake or aquifer **Paatsjoki River Basin**

Please complete this second section for each transboundary basin, river, lake or aquifer, or for group of basins covered by the same agreement or arrangement and where conditions are similar. It might also be convenient to group basins or sub-basins for which your country's share is very small.<sup>u</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements<sup>v</sup> on both

<sup>t</sup> Or, where applicable, aquifer management plans.

<sup>u</sup> In principle, section 2 should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>v</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of

the basin and its sub-basin. You may coordinate your responses with other States with which your country shares the basin or aquifer or even prepare a joint report for shared basins. General information on transboundary water management at the national level should be provided in section I and not repeated here.

Please reproduce the whole section II with its questions for each transboundary basin, river, lake or aquifer, or group of basins for which you will provide a reply.

**Name of the transboundary basin, river, lake or aquifer, or group thereof, list of the riparian States, and country's share of the basin: Paatsjoki River basin (including Lake Inari and its upstream basin in Finland and River Paatsjoki between the border of Norway and Russia)**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin (art. 9)?

One or more agreements or arrangements exist and are in force

Agreement or arrangement developed but not in force

Agreement or arrangement developed, but not in force for all riparians

- Agreement concerning the Finnish-Norwegian Transboundary Water Commission (32/1981). The Finnish-Norwegian Transboundary Water Commission is a body for co-operation and communication between the states. The commission gives propositions and recommendations on matters concerning the transboundary water bodies. There is a Russian representative in a role of an observer when Paatsjoki River basin issues are covered. Members include representatives from Finnish and Norwegian environmental administration and municipalities in the regions. Members are appointed by their governments.

- Agreement concerning the Finnish-Norwegian River Basin District (50/2014). This agreement covers the River Paatsjoki basin located in Finland and Norway and enables bilateral co-operation and administrative arrangements. Both countries make a river basin management plans for their territories that are being integrated according to agreement. Agreement covers also issues like public hearing, communication and solving of possible disagreements.

- Trilateral agreement about the regulation of Lake Inari between Finland, Norway and Russia (39/1959). The lake is regulated by the inflow forecasts and regulation rules in a way that harm on the lake area and in the River Paatsjoki are minimized. Finnish partner sends the outflow instructions to Russia, which fulfills the regulation from the most upstream hydropower plant in the river. There are both Norwegian and Russian powerplants in the river. Each country has a named representative who meet annually and sign a protocol about the past year's regulation and future actions.

Agreement between the Republic of Finland and the Union of Soviet Socialist Republics concerning Frontier Watercourses (26/1965).

Agreement or arrangement is under development

No agreement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

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arrangements, such as memorandums of understanding.

**If there is no agreement or arrangement and no joint body for the transboundary basin, river, lake or aquifer then jump to question 4; if there is no agreement, but a joint body then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, river, lake or aquifer or group of basins or sub-basins**

2. (a) Does this agreement or arrangement specify the basin area subject to cooperation?

Yes /No

If yes, does it cover the entire basin, or group of basins, and all riparian States?

Yes /No

If not, what does it cover?:

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): **Finland, Norway and Russia**

(b) Are aquifers (or groundwater bodies) covered by the agreement/arrangement?

Yes /No

**The answers below are a combination of multiple, either bilateral or trilateral agreements between Finland, Norway and Russia**

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

Agriculture

Transport (e.g., navigation)

Households

Energy: hydropower and other energy types

Tourism

Nature protection

Other (please list): [fill in]

(d) What topics or subjects of cooperation are included in the agreement or arrangement (art. 9)?

**Procedural and institutional issues**

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

|   |                                     |
|---|-------------------------------------|
| Consultation on planned measures  | <input checked="" type="checkbox"/> |
| Mutual assistance (art. 15)   | <input type="checkbox"/>            |
| <b>Topics of cooperation</b>  |                                     |
| Joint vision and management objectives  | <input checked="" type="checkbox"/> |
| Joint significant water management issues   | <input checked="" type="checkbox"/> |
| Navigation  | <input type="checkbox"/>            |
| Environmental protection (ecosystem)  | <input checked="" type="checkbox"/> |
| Water quality   | <input checked="" type="checkbox"/> |
| Water quantity or allocation  | <input checked="" type="checkbox"/> |
| Cooperation in addressing floods  | <input checked="" type="checkbox"/> |
| Cooperation in addressing droughts  | <input checked="" type="checkbox"/> |
| Climate change adaptation   | <input checked="" type="checkbox"/> |
| <b>Monitoring and exchange</b>  |                                     |
| Joint assessments   | <input checked="" type="checkbox"/> |
| Data collection and exchange (art. 13)  | <input checked="" type="checkbox"/> |
| Joint monitoring (art. 11)  | <input checked="" type="checkbox"/> |
| Maintenance of joint pollution inventories  | <input type="checkbox"/>            |
| Elaboration of joint water quality objectives   | <input type="checkbox"/>            |
| Common early warning and alarm procedures (art. 14)   | <input checked="" type="checkbox"/> |
| Exchange of experience between riparian States  | <input checked="" type="checkbox"/> |
| Exchange of information on planned measures   | <input checked="" type="checkbox"/> |
| <b>Joint planning and management</b>  |                                     |
| Development of joint regulations on specific topics   | <input type="checkbox"/>            |
| Development of international or joint river, lake or aquifer basin management or action plans | <input checked="" type="checkbox"/> |
| Management of shared infrastructure   | <input type="checkbox"/>            |
| Development of shared infrastructure  | <input type="checkbox"/>            |
| Other ( <i>please list</i> ): [fill in]   |                                     |

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any (*please describe, if applicable*): [fill in]

Finding a common agreement on different issues has in some cases taken a long time.

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?: For the lake regulation, the trilateral co-operation is a successful example of work between the countries through the time since 1959. Developments in the data and information exchange, mutual will to understanding each other's' interests and make integrated decisions. Long-term relationships and careers of the key persons in every country.

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): [fill in]

3. Is your country a member of an operational joint body or joint bodies for this agreement/arrangement (art. 9)?

Yes /No

If no, why not? (please explain): [fill in]

**Where there is a joint body (or bodies)**

(a) If there is a joint body, which kind of joint body (please tick one)?

Plenipotentiaries

Bilateral commission

Basin or similar commission

Other (please describe): [fill in]

(b) Does the joint body cover the entire transboundary basin or sub-basin, river, lake or aquifer, or group of basins, and all riparian States?

Yes /No

(c) Which States (including your own) are member of the joint body? (Please list): **Russia and Finland and Norway, trilaterally and bilaterally**

(d) Does the joint body have any of the following features (please tick the ones applicable)?

A secretariat

If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe): [fill in]

**The Finnish-Norwegian Transboundary Water Commission has part-time secretaries in both countries: Lapland Centre for Economic Development, Transport and the Environment in Finland, and the County Governor of Finnmark in Norway.**

A subsidiary body or bodies

Please list (e.g., working groups on specific topics): Working group on lake regulation

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body (art. 9, para. 2)?<sup>w</sup>

Identification of pollution sources

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

Setting emission limits

Elaboration of joint water quality objectives

Management and prevention of flood or drought risks

Preparedness for extreme events, e.g., common early warning and alarm procedures

Water allocation and/or flow regulation

<sup>w</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

- Policy development
- Control of implementation
- Exchange of experience between riparian States
- Exchange of information on existing and planned uses of water and related installations
- Settling of differences and conflicts
- Consultations on planned measures
- Exchange of information on best available technology
- Participation in transboundary EIA
- Development of river, lake or aquifer basin management or action plans
- Management of shared infrastructure
- Addressing hydromorphological alterations
- Climate change adaptation
- Joint communication strategy
- Basin-wide or joint public participation and consultation of, for example, basin management plans
- Joint resources to support transboundary cooperation
- Capacity-building
- Any other tasks (*please list*): [fill in]

(f) What are the main difficulties and challenges that your country faces with the operation of the joint body, if any?

- Governance issues

*Please describe, if any:* [fill in]

- Unexpected planning delays

*Please describe, if any:* [fill in]

*Please describe, if true:* [fill in]

*Please describe, if true:* [fill in]

- Lack of effective measures

*Please describe, if true:* [fill in]

- Unexpected extreme events

*Please describe, if any:* Floods caused by extreme and unexpected summer rains cause challenges and require rapid response and change of previously made plans. This is however solved in mutual co-operation.

- Lack of information and reliable forecasts

*Please describe, if any:* [fill in]

Others (*please list and describe, as appropriate*): [fill in]

(g) If not all riparian States are members of the joint body how does the body cooperate with them?

- No cooperation

- They have observer status
- Other (*please describe*): [fill in]
- (h) Does the joint body or its subsidiary bodies meet regularly?  
 Yes /No   
 If yes, how frequently does it meet? **Once per year**
- (i) What are the main achievements with regards to the joint body?: [fill in]
- (j) Are representatives of international organizations invited to the meetings of the joint body (or bodies) as observers?  
 Yes /No
- (k) Did the joint body ever invite a coastal State to cooperate (art. 9, paras. 3 and 4)?  
 Yes /No   
*If yes, please give details. If no, why not?:* [fill in]
4. Is there a joint or coordinated management plan (such as an action plan or a common strategy) or have joint objectives been set specifically on the transboundary waters subject to cooperation (art. 9, para. 2 (f))  
 Yes /No   
*If yes, please provide further details:* [fill in]
5. How is the transboundary basin, river, lake or aquifer protected, including the protection of ecosystems, in the context of sustainable and rational water use (art. 2, para. 2 (b), and art. 3, para. 1 (i))
- Afforestation
- Restoration of ecosystems
- Environmental flow norms
- Groundwater measures (e.g., protection zones)
- Other measures (*please list*): **Pasvik-Inari Trilateral Park is a protected wilderness area in the watershed. These areas cover on the Finnish, Norwegian and Russian territory an area of 14,903 square kilometres, where such activities as road construction and mining are prohibited, as is logging in some areas.**
6. (a) Does your country exchange information and data with other riparian States in the basin (art. 13)?  
 Yes /No
- (b) If yes, on what subjects are information and data exchanged?
- Environmental conditions (art. 13, para. (1) (a))
- Research activities and application of best available techniques (arts. 5, 12 and 13, para. 1 (b))
- Emission monitoring data (art. 13, para. 1 (c))
- Planned measures taken to prevent, control or reduce transboundary impacts (art. 13, para. 1 (d))
- Point source pollution sources
- Diffuse pollution sources
- Existing hydromorphological alterations (dams, etc.)
- Discharges

Water abstractions

Future planned measures with transboundary impacts, such as infrastructure development

Other subjects (*please list*): [fill in]

(c) Is there a shared database or information platform?

Yes /No

(d) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* [fill in]

(e) What are the main difficulties and challenges to data exchange, if applicable? (*please describe*): [fill in] **Water quality and emission data from Russia is not real-time and there isn't a common database for this kind of data.**

(f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*): [fill in] **There is an FTP-server containing automatically updated hydrological observations and information about hydropower production. This data enables electricity production optimization and minimization of spills past turbines.**

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer (art. 11, para. 1)?

Yes /No

(a) If yes, what does the joint monitoring cover?

|  | Covered                             | Hydrological                        | Ecological                          | Chemical                            |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Border surface waters                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Surface waters in the entire basin     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Surface waters on the main watercourse | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Connected aquifers (or groundwaters)   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Unconnected aquifers (or groundwaters) | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

Joint and agreed methodologies

Joint sampling

Common monitoring network

Common agreed parameters

(c) Please describe the main achievements regarding joint monitoring, if any: **It offers a possibility to assess the impacts and conveyance of harmful substances as well as impact of water-level regulation and climate change and to illustrate their effects on different aquatic environments.**

(d) Please describe any difficulties experienced with joint monitoring:

8. Do the riparian States carry out joint assessment of the transboundary basin, river, lake or aquifer (art. 11)?

Yes /No

*If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the*



assessment: [fill in] Water quality of surface waters and pollution sources every 6<sup>th</sup> year (2014). [www.pasvikmonitoring.org](http://www.pasvikmonitoring.org)

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

*If yes, is the basis an international or regional standard (please specify which) or has it been adapted from the national standards of the riparian States?:* Finland and Norway integrate their river basin management plans. The Finnish-Norwegian Transboundary Water Commission has recommended that Finland and Norway should identify the differences between the classification systems and actions to intercalibrate them. The commission has also outlined that Finland and Norway should put efforts to have a joint monitoring system according to the EU Water Framework Directive requirements. General monitoring needs sufficient funds.

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution (art. 14)?

Notification and communication

Coordinated or joint alarm system for accidental water pollution

Other (please list): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events (art. 14)?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (please list): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

12. Are procedures in place for mutual assistance in case of a critical situation (art. 15)?

Yes /No

*If yes, please provide a brief summary:* [fill in]

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, river, lake or aquifer? (art. 16)?

Yes /No

*If yes, how? (please tick all applicable) (Please note: If your country is a Party to the Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters (Aarhus Convention), you may refer to your country's report under that Convention.):* ??

Stakeholders have observer status in a joint body

*If yes, please specify the stakeholders for each joint body:* [fill in]

|   |                                     |
|---|-------------------------------------|
| Availability of information to the public                                     | <input checked="" type="checkbox"/> |
| Consultation on planned measures or river basin management plans <sup>x</sup> | <input checked="" type="checkbox"/> |
| Public involvement  | <input checked="" type="checkbox"/> |
| Other ( <i>please specify</i> ): [fill in]                                    |                                     |

### III. Calculation of SDG indicator 6.5.2

#### Methodology

Using the information gathered in section II, the information gathered in this section allows for the calculation of the Sustainable Development Goal global indicator 6.5.2, which is defined as *the proportion of transboundary basins' area with an operational arrangement for water cooperation*.

The Step-by-step monitoring methodology for SDG indicator 6.5.2<sup>y</sup>, developed by UNECE and UNESCO in the framework of UN Water, can be referred to for details on the necessary data, the definitions and the calculation.

The value of the indicator at the national level is derived by **adding up the surface area in a country of those transboundary surface water catchments and transboundary aquifers (i.e. 'transboundary' basins) that are covered by an operational arrangement and dividing the obtained area by the aggregate total area in a country of all transboundary basins (both catchments and aquifers)**.

**Transboundary basins** are basins of transboundary waters, that is, of any surface waters (notably rivers, lakes) or groundwaters which mark, cross or are located on boundaries between by two or more States. For the purpose of the calculation of this indicator, for a transboundary river or lake, the basin area is determined by the extent of its catchment. For groundwater, the area to be considered is the extent of the aquifer.

An "**arrangement for water cooperation**" is a bilateral or multilateral treaty, convention, agreement or other formal arrangement among riparian countries that provides a framework for cooperation on transboundary water management.

For an arrangement to be considered "**operational**" all the following criteria needs to be fulfilled:

- There is a joint body, joint mechanism or commission (e.g. a river basin organization) for transboundary cooperation,
- There are regular (at least once per year) formal communications between riparian countries in form of meetings (either at the political or technical level),
- There is a joint or coordinated water management plan(s), or joint objectives have been set, and
- There is a regular (at least once per year) exchange of data and information.

#### Calculation of indicator 6.5.2

Please list in the tables below the transboundary basins (rivers and lakes and aquifers) in your country's territory and provide the following information for each of them:

- the country/ies with which the basin is shared;
- the surface area of these basins (the catchment of rivers or lakes and the aquifer in the case of groundwater) within the territory of your country (in km<sup>2</sup>); and
- the surface area of these basins within the territory of your country which is covered by a cooperation arrangement that is operational according to the above criteria (please

<sup>x</sup> Or, where applicable, aquifer management plans.

<sup>y</sup> Available at <http://www.unwater.org/publications/publications-detail/en/c/428764/>.

consider the replies to the questions in section II, in particular questions 1, 2, 3, 4 and 6).

In case an operational arrangement is in place only for a sub-basin or portion of a basin, please list this sub-basin just after the transboundary basin it is part of. In case there is an operational arrangement for the whole basin, do not list sub-basins in the table below.

**Transboundary basin (river or lake) [please add rows as needed]**

| Name of transboundary basin / sub-basin | Countries shared with | Surface area of the basin / sub-basin (in km <sup>2</sup> ) within the territory of the country | Surface area of the basin / sub-basin (in km <sup>2</sup> ) covered by an operational arrangement within the territory of the country |
|---|-----------------------|---|---|
| Oulanka-Koutajoki                       | FI_RU                 | 4911  | 4911  |
| Tuloma                                  | FI_RU                 | 3285  | 3285  |
| Paatsjoki                               | FI_RU,<br>NO          | 14512   | 14512   |
| Näätämö                                 | FI_NO                 | 2367  | 2367  |
| Teno                                    | FI_NO                 | 5133  | 5133  |
| Torne                                   | FI_SW                 | 14480   | 14480   |
| Kemijoki                                | FI_RU                 | 49467   | 49467   |
| Oulujoki                                | FI_RU                 | 22509   | 22509   |
| Jänisjoki                               | FI_RU                 | 1988  | 1988  |
| Kiteenjoki-Tohmajoki                    | FI_RU                 | 759,8   | 759,8   |
| Hiitolanjoki                            | FI_RU                 | 1029  | 1029  |
| Vuoksi                                  | FI_RU                 | 52696   | 52696   |
| Saimaan kanava-<br>Juustilanjoki        | FI_RU                 | 61,59   | 61,59   |
| Mustajoki-<br>Juustilanjoki             | FI_RU                 | 66,37   | 66,37   |
| Rakkolanjoki-<br>Hounijoki              | FI_RU                 | 156   | 156   |
| Alajoki-Hounijoki                       | FI_RU                 | 214   | 214   |
| Urpalanjoki                             | FI_RU                 | 467   | 467   |
| Tervajoki                               | FI_RU                 | 108   | 108   |
| Vilajoki                                | FI_RU                 | 252   | 252   |

|   |       |        |        |
|---|-------|--------|--------|
| Kaltonjoki (Santajoki)  | FI_RU | 65     | 65     |
| Vaalimaanjoki   | FI_RU | 241    | 241    |
| Vienan Kemi   | FI_RU | 1297   | 1297   |
| Kilpeenjoki/Rokkajoki   | FI_RU | 21,36  | 21,36  |
| <b>Total surface area of transboundary basins / sub-basins of rivers and lakes covered by operational arrangements within the territory of the country ( in km<sup>2</sup>) [A]</b><br>(do not double count sub-basins) |       |        | 176086 |
| <b>Total surface area of transboundary basins of rivers and lakes within the territory of the country (in km<sup>2</sup>) [B]</b><br>(do not double count sub-basins)   |       | 176086 |        |

**Transboundary aquifers [please add rows as needed]**

| Name of the transboundary aquifer  | Countries shared with | Surface area (in km <sup>2</sup> ) <sup>z</sup> within the territory of the country | Covered by an operational arrangement (yes/no) |
|--|-----------------------|---|--|
|  |                       |   |  |
|  |                       |   |  |
|  |                       |   |  |
| <b>Sub-total: surface area of transboundary aquifers covered by operational arrangements (in km<sup>2</sup>) [C]</b> |                       |   |  |
| <b>Total surface area of transboundary aquifers (in km<sup>2</sup>) [D]</b>  |                       |   |  |

**Indicator value for the country 100 %**

$$((A + C)/(B + D)) \times 100\% =$$

**Additional information**

If the respondent has comments that clarify assumptions or interpretations made for the calculation, or the level of certainty of the spatial information, please write them here:

**We have no significant shared ground waters/aquifers with neighbouring countries.**

<sup>z</sup> For a transboundary aquifer, the extent is derived from the aquifer system delineation which is commonly done relying on information of the subsurface (notably the extent of geological formations). As a general rule, the delineation of aquifer systems is based on the delineation of the extent of the hydraulically connected water-bearing geological formations. Aquifer systems are three-dimensional objects and the aquifer area taken into account is the projection on the land surface of the system. Ideally, when different aquifer systems not hydraulically connected are vertically superposed, the different relevant projected areas are to be considered separately, unless the different aquifer systems are managed conjunctively.

**Spatial information**

If a map (or maps) of the transboundary surface water catchments and transboundary aquifers (i.e. 'transboundary basins') is available, please attach them. Ideally, shapefiles of the basin and aquifer delineations that can be viewed in Geographical Information Systems should be sent.

[See appendix](#)

#### IV. Final questions

1. What are the main challenges your country faces in implementing the Convention and cooperating on transboundary waters? (*Please describe*):

##### FI-RU Cooperation

There are several differences between Finland and Russia, such as:

- Differences in administrative structure. Since joint water management requires participation of many sectors of administration, e.g. fisheries or energy, not only water administration, there is a challenge to link relevant competent authorities in the neighbouring country to common work.
- Differences in decision making system and procedures. In Russia, new projects may need the approval of several competent authorities before a final decision can be made. In Finland, there is principally one competent authority with main responsibility. This results in long chains of preparation with hearings taking time before implementation a plan.
- Differences in norms for water pollution and water quality classification. However, we have already for long been able to find comparability between different systems.

One of the issues still requiring joint effort is improvement of river continuum in order to improve the reproduction of migratory fish. This is a big challenge, particularly concerning the old hydropower plants without fish passes due to high costs and technical challenges.

Changing hydrological regime due to climate change urges for development of risk-based approach for flood and drought management, which takes also into account various uses of water resources. Risk-based approach should include better estimates of benefits, losses and costs on both sides of the border. Differences in evaluation procedures, data availability and accessibility and valuation estimates require much work in future.

##### FI-SE Cooperation

Delineation of the water district on the Swedish side is not restricted to the transboundary water district that creates challenges in management procedures. So far separate national water management plans, differences in national timetables for water management planning procedure, national variations in status classification methods. Also water monitoring programmes are not fully coordinated.

Fishery management/fishing rules are part of the transboundary river agreement. However, the Commission has only right to express its opinion before the negotiations between national fishing authorities, which are deciding the yearly fishing rules. Fishing authorities do not frequently participate in the working of the commission, which means that their cooperation spirit will not develop along the years as it does among the water authorities. The fishing is the root of the social life and culture by the trans-boundary river.

The climate change in the Arctic and sub-Arctic regions where the water district is situated will introduce challenges, a shift in natural and social realities within the coming decades. That will affect water quality and quantity, timely distribution of water, snow and ice, fisheries and fish stocks, as well as businesses and societies in an yet unseen manner.

2. What have been the main achievements in implementing the Convention and cooperating on transboundary waters? What were the keys to achieving that success? (*Please describe concrete examples*):

##### FI-RU Cooperation

The Finnish-Russian transboundary water agreement was signed in 1964. During the past >50 years most of the joint water management issues have been solved and joint mechanisms for management procedures have been developed. Some of the most important achievements are:

- discharge rule for River Vuoksi/Lake Saimaa system that optimizes the flow regulation to minimize damages and other losses (e.g. energy) due to flood and drought in both countries. The discharge practices take also into account other water uses, such as navigation and nature protection.
- flow regulation and potential compensation mechanisms in the cascade of hydropower stations on both sides of the border.
- common data availability for hydrological observation, modelling and prediction.
- joint alarm system for exceptional floods and accidental pollution
- joint monitoring of water quality with intercalibration of laboratories and joint annual monitoring reports.
- improved water pollution control with significant reduction on pollution, Joint annual pollution control reports.
- Keys to achieving these results include mutual understanding of the issues and problems in both riparian countries, understanding that joint management is beneficial for both and increasing trust on common assessments. The support from the governments has been strong throughout the history of cooperation.

#### FI-NO Cooperation

- Common water quality monitoring and reporting program of the river Tenojoki
- Common multiple use plans (integrated river basin management plans) for the main rivers:
  - Tenojoki 1990 (revised 2005, municipalities responsible)
    - Näätämöjoki 1992
    - Paatsjoki 1996 (Finland, Norway, Russia)
    - Common monitoring and reporting program for WFD
- Many common research and planning programs
- Construction of the municipal waste water treatment plants of Karasjok and Tanabro in Norway because of the pressure by the commission
- Improved cooperation with Norwegian and Finnish border municipalities
- Including Russian regional environmental authority as unofficial observers in the commission work
- Improved water quality in border rivers
- Taking indigenous Sami people in the commission work as members of the commission. It is very important to include the interests of the local population in the trans-boundary water agreements
- When implementing the proposals of the Commission, ownership of the local population and the decision-making ministries is essential
- Transboundary water commissions can promote other co-operation between neighbouring countries
- A transboundary agreement should cover whole international catchment area, ecosystem and water resources

#### FI-SE Cooperation

- Cooperation over the border in Torne Valley has a long history and common water management projects assessing the shared water bodies have eased the implementation of the agreement, e.g. water management projects (TRIWA I-III),

local presence and activities by the Transboundary River Commission to openly inform and serve the stakeholders of the region. Trust between the Commission and the stakeholders including the national and regional state officials, municipalities and other interests groups. Communication and arrangement of open forums for discussion (Water Parliament events, projects, dialogues and meetings).

- Joint water management plan (WMP) summary produced in 2016 with information inputs in the regionally and nationally to raise awareness and include the stakeholders in the water management, published in national majority and minority languages simultaneously.
- Joint planning in flood risk management planning (FRMP). Planned Finnish and Swedish measures included and compared in the national management plans. Work for the joint measures is ongoing.
- Jointly produced work plan (Action Plan) for the next round in RBMP and FRMP work with the regional authorities and The Commission.
- Joint waste water treatment plants in Haparanda and Karesuando
- Cultural and socio-cultural approach related to the river ecosystem and social realities and history within the water district with its diversity of cultures and languages have been linked and included into both water management work and fishery management dialogue with the authorities and stakeholders.
- Support for co-operation in various ways, enabling meetings, language assistance, a meeting venue, regional conferences bi-annually
- The key factors lie in the wording and formulation of the Agreement that has a broad scope and a modern approach to the key issues, an active Secretariat with support from the Commission and the Chairs in implementing the Agreement in a manner that is fit for purpose in this water district.

3. Name and contact details of the person(s) who filled out the questionnaire (*please insert*):

Antton Keto  
Ministerial Adviser  
Ministry of the Environment  
P.O. 35, FI-00023 Government, Finland  
Phone +358-295250148/+358-504319289  
antton.keto@ym.fi



Date: 1.11.2017 (update version)      Signature:

4. Please include any additional information on the process of preparing the report (e.g., whether there was an exchange or consultation within the joint body or with riparian countries), in particular which institutions have been consulted (*please describe*): The part of the report concerning Finnish-Russian transboundary watercourses has been prepared by the Ministry of Agriculture and Forestry and Ministry of the Environment. Lapland ELY-center has been prepared the Swedish and Norwegian transboundary watercourses with consultation of Finnish-Swedish Transboundary River Commission. Preparatory work has been provided by the Finnish Environment Institute, and consultations have been with the Regional Centre of Economic Development, Transport and the Environment of the Southeast Finland. Discussions and information exchange has been with Ministry of the Environment of Norway and Ministry of the Environment and Energy of Sweden. The Finnish report have been presented to Neva-Ladoga Water Agency.
5. If you have any other comments please add them here (*insert comments*):

Thank you very much for taking the time to complete this report.