

Reporting on the global SDG indicator 6.5.2

TEMPLATE

Country name: Brazil

Section I. Calculation of SDG indicator 6.5.2

a. Methodology

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 information gathered in Section II, will help in completing this section. The Step-by-step monitoring methodology for SDG indicator 6.5.2¹, 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.

b. 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 km²);
- 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 consider the replies to the questions in Section II, in particular questions 1, 2, 3, 4 and 6).

¹ Available at <http://www.unwater.org/publications/publications-detail/en/c/428764/>.

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 the transboundary basin / sub-basin	Countries shared with	Surface area of the basin / sub-basin (in km ²) within the territory of the country	Surface area of the basin / sub-basin (in km ²) covered by an operational arrangement within the territory of the country
A.1) La Plata Basin	Paraguay, Uruguay, Argentine and Bolivia	1.414.000	1.414.000
A.1.1 – River Basin Quarai (**Sub-basin La Plata Basin)	Uruguay and Brazil	6.607	6.607
A.1.2 Apa River Basin (**Sub-basin La Plata Basin))	Paraguay and Brazil	12.181,31	---
A.2) Amazon River Basin	Bolivia, Brazil, Colombia, Ecuador, Guyana, Peru, Suriname and Venezuela	3.849.300	3.849.300
A.3) Mirin Lagoon Basin	Brazil and Uruguay	29.250	29.250
A.4) Oiapoque River Basin	Brazil and French Guyana	98.583,5	--
Total surface area of transboundary basins / sub-basins of rivers and lakes covered by operational arrangements within the territory of the country (in km²) [A] (do not double count sub-basins)			A1 + A2 + A3 = 1.414.000 + 3.849.300 + 29.250 = 5.292.550
Total surface area of transboundary basins of rivers and lakes within the territory of the country (in km²) [B] (do not double count sub-basins)		B = A1 + A2 + A3 + A4 = 1.414.000 + 3.849.300 + 29.250 = 5.391.133,5	

Transboundary aquifers [please add rows as needed]

Name of the transboundary aquifer	Countries shared with	Surface area (in km ²) ² within the territory of the country	Surface area (in km ²) covered by an operational arrangement within the territory of the country
Grupo Roraima System	Brazil, Guyana and Venezuela	5.000 (approximate)	--
Boa Vista-Serra do Tucano-North Savanna System	Brazil and Guyana	14.000	--
Costeiro System	Brazil and French Guyana	18.000	--
Amazonas (former Solimões-Içá, included the Formation Alter do Chão) System	Brazil, Bolivia, Colombia, Ecuador, Peru and Venezuela	1.300.000	--
Pantanal System	Brazil, Bolivia and Paraguay	102.000	--
Aquidauana-Aquidabán System	Brasil and Paraguay	27.000	--
Caiuá/Bauru-Acaray System	Brasil and Paraguay	353.420	--
Guarani System	Brasil, Paraguay, Uruguay e Argentine	839.800	--
Serra Geral System	Brazil, Argentine, Paraguay and Uruguay	383.400	--
Permo Carbonífero System	Brasil and Uruguay	21.000	--
Chuy System	Brasil and Uruguay	33.000	--
Total surface area of transboundary aquifers covered by operational arrangements within the territory of the country (in km²) [C]			C = 0
Total surface area of transboundary aquifers within the territory of the country (in km²) [D]		D=3.096.620	

² 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.

Indicator value for the country

$$((A + C) / (B + D)) \times 100\% = 62,35\%$$

$$((5.292.550 + 0) / (5.391.133,5 + 3.096.620)) \times 100\% = 62,35\%$$

$$5.292.550 / 8.487.753,5 = 62,35\%$$

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:

**** Quarai and Apa River Basin are sub-basin of the Prata Basin.**

The surface area of the Roraima Aquifer System is an approximation.

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.

All maps are attached in respective folders of each aquifer or river basin.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Amazon River Basin – Bolivia, Brazil, Colombia, Ecuador, Guyana, Peru, Suriname and Venezuela.*

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

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:
Amazon River Basin Cooperation Treaty

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:

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]

¹ In principle, Section II 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.

² 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*): *Bolivia, Brazil, Colombia, Ecuador, Guyana, Peru, Suriname and Venezuela*

(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?

Procedural and institutional issues

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

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 | <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"/> |
| Elaboration of joint water quality objectives | <input type="checkbox"/> |
| Common early warning and alarm procedures | <input type="checkbox"/> |
| Exchange of experience between riparian States | <input checked="" type="checkbox"/> |
| Exchange of information on planned measures | <input checked="" type="checkbox"/> |

Joint planning and management

- | | |
|---|-------------------------------------|
| Development of joint regulations on specific topics | <input checked="" 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 checked="" 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*):

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

- *Strengthen exchange of information; e*
- *Have a locus for negotiation among countries, related to water resources management.*

(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*): otca.pagina-oficial.com/library/details/149 and otca.pagina-oficial.com/library/details/150

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

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 | <input checked="" type="checkbox"/> |
| Bilateral commission | <input type="checkbox"/> |
| Basin or similar commission | <input type="checkbox"/> |
| Other (<i>please describe</i>): [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*) *Bolivia, Brazil, Colombia, Ecuador, Guyana, Peru, Suriname and Venezuela*

(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):

- *At international level - Amazon Cooperation Council (ACC) and Coordinating Commission of the Amazon Cooperation Council (CCOOR); and*
- *At national level - Permanent National Commissions (PNC).*

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

³This 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.

- 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:

Unexpected planning delays

*Please describe, if any: **Not all countries have national water resources plans.***

Lack of resources

*Please describe, if true: **Lack of financial and personnel.***

Lack of mechanism for implementing measures

*Please describe, if true: **Different legal and institutional levels among countries.***

Lack of effective measures

Please describe, if true:

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? *At least once per year.*

(i) What are the main achievements with regards to the joint body? *Be the official locus for multilateral negotiations and decisions about water and natural resources management among the countries.*

(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?

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?

Yes /No

If yes, please provide further details: [Amazonian Strategic Cooperation Agenda](#).

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?

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?

Yes /No

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

Environmental conditions

Research activities and application of best available techniques

Emission monitoring data

Planned measures taken to prevent, control or reduce transboundary impacts

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: www.ana.gov.br, www.inpe.br/, www.inmet.gov.br/portal/ and otca.pagina-oficial.com/themes

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

- *Cost for data acquisition;*

- *the difference in quality and standards of the information in each country.*

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

- *Enable coordinated actions among countries;*
- *To have a water resources management more reliable.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

Yes /No

- *They carry out joint monitoring in the entire transboundary basin only for deforestation. Available in: otca.pagina-oficial.com/library/details/138*

(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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<input type="checkbox"/>
Common agreed parameters	<input type="checkbox"/>

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

- *Possibility to have updated information;*
- *Contribution to monitoring actions in each country.*

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

- *Changes on institutional priority;*
- *Lack of financial, human and technical resources.*

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

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: They carried out joint assessment in the entire transboundary for: “Changes in the hydroclimatology of the amazon basin and derived risks for humans and vulnerable ecosystems” (Dec, 2006)1; “Deforestation” (2013)2; “Indigenous peoples and other tribal communities

and their conceptions on rights related to nature and development” (2011)3; environmental health assessment, including assessment of drink water quality and health services in the riparian States (2015)4.

Available in: 1- otca.pagina-oficial.com/library/details/129; 2- otca.pagina-oficial.com/library/details/212; 3- otca.pagina-oficial.com/library/details/91; 4- <http://otca.pagina-oficial.com/library/details/50>

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? [United Nations Standards](#)

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

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?: [Brazil is located in forward position in the water flow on the Amazon River Basin and should be hardly affected by accidental pollution events. In this point of view, is the most interested in measures such notification, communication and joint alarm systems. But the lack of financial and technical resources in some riparian States and the priority level of these measures for these countries are difficulties to put them in place.](#)

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

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?

Yes /No

If yes, please provide a brief summary: [There are some Pilots projects implemented in way to establish joint climate change adaptation and disaster risk reduction strategies for the areas and people vulnerable. Available in: \[otca.pagina-oficial.com/library/details/213\]\(http://otca.pagina-oficial.com/library/details/213\)](#)

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

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: According to the RES/IX MRE-OTCA/7, they may invite any State, International Organization, Governmental or Non-governmental body to participate in the meetings as observers.

Availability of information to the public

Consultation on planned measures or river basin management plans⁴

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.

Links of interest to data maps access:

PDF files:

Basin boundaries - metadados.ana.gov.br/geonetwork/srv/en/resources.get?id=164&fname=1-II.pdf&access=private

Amazon deforestation - <http://otca.pagina-oficial.com/library/details/212>

Shape files:

Basin boundaries - metadados.ana.gov.br/geonetwork/srv/en/resources.get?id=38&fname=SNIRH_Ottobacias.zip&access=private

Rivers - metadados.ana.gov.br/geonetwork/srv/en/resources.get?id=43&fname=geoft_bho_cursodagua.zip&access=private

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *APA River Basin (Sub-basin La Plata Basin) – Brazil, Paraguay*

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

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:
Cooperation agreement between the Government of the Federative Republic of Brazil and the Government of the Republic of Paraguay for sustainable development and integrated management of the Apa River Basin..*

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

¹ In principle, Section II 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.

² 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 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*): *Brazil and Paraguay*

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success? *Have legal instruments between countries, related to water resources management.*

(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*):

http://www.cnrh.gov.br/index.php?option=com_content&view=article&id=23&Itemid=84 (*Acordo Rio Apa*)

http://www.planalto.gov.br/ccivil_03/ Ato2007-2010/2010/Decreto/D7170.htm

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

Yes /No

If no, why not? (please explain):

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*): *Brazil and Paraguay*

(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): [fill in]

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

(e) What are the tasks and activities of this joint body?³

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

³This 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 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 any: [Not all countries have national water resources plans.](#)

Lack of resources

Please describe, if true: [Lack of financial and personnel.](#)

Lack of mechanism for implementing measures

Please describe, if true: [Different legal and institutional levels between countries.](#)

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? [fill in]

(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?

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?

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?
- 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?
- Yes /No
- (b) If yes, on what subjects are information and data exchanged?
- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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*):
- *Cost for data acquisition;*
 - *The difference in quality of information between countries.*
- (f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*):
- *Enable coordinated actions between countries;*
 - *Have a more reliable water resources management.*
7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?
- 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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<input type="checkbox"/>
Common agreed parameters	<input type="checkbox"/>

(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?

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]

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? [United Nations Standards](#)

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

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

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

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

Notification and communication	<input type="checkbox"/>
--------------------------------	--------------------------

- 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?:

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴

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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Mirim Lagoon Basin – Brazil and Uruguay.*

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

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:
Treaty of Mirim Lagoon Basin

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:

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]

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¹ In principle, Section II 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.

² 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): *Brasil and Uruguay.*

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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

15/5/50

Monitoring and exchange

- | | |
|--|-------------------------------------|
| Joint assessments | <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"/> |
| Elaboration of joint water quality objectives | <input type="checkbox"/> |
| Common early warning and alarm procedures | <input checked="" type="checkbox"/> |
| Exchange of experience between riparian States | <input checked="" type="checkbox"/> |
| Exchange of information on planned measures | <input checked="" type="checkbox"/> |

Joint planning and management

- | | |
|---|-------------------------------------|
| Development of joint regulations on specific topics | <input checked="" 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 checked="" 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*):

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

- *Strengthen of exchange of information;*
- *Have a locus for negotiation, between countries, related to water resources management.*

(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*):

<https://legislativo.parlamento.gub.uy/temporales/acue170553079597.HTML>

Attached

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

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 | <input type="checkbox"/> |
| Bilateral commission | <input checked="" type="checkbox"/> |
| Basin or similar commission | <input type="checkbox"/> |
| Other (<i>please describe</i>): [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?

15/5/25

Yes /No

(c) Which States (including your own) are member of the joint body? (*Please list*) *Brazil and Uruguay*

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Handwritten signature

³This 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 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:

Unexpected planning delays

Please describe, if any: Economic and related problems

Lack of resources

Please describe, if true: Lack of financial and local personnel resources.

Lack of mechanism for implementing measures

Please describe, if true: Different legal and institutional levels between countries.

Lack of effective measures

Please describe, if true:

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? *Approximately twice per year.*

(i) What are the main achievements with regards to the joint body? *Be the official locus for multilateral negotiations and decisions, about water resources management, between the countries.*

(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?

Yes /No

If yes, please give details. If no, why not? [fill in]

15/4/10

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?

Yes /No

If yes, please provide further details:

The countries realize periodical meetings to discuss management actions for the Mirin Lagoon in order to achieve joint objectives, such as water quality control, waterways navigation, inter alia.

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?

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?

Yes /No

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

Environmental conditions

Research activities and application of best available techniques

Emission monitoring data

Planned measures taken to prevent, control or reduce transboundary impacts

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: www.ana.gov.br

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

- *Cost for data acquisition;*
- *The difference in quality of information in each countries.*

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

- *Enable coordinated actions between countries;*
- *Have a more reliable water resources management.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

Yes /No

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

	Covered?	Hydrological	Ecological	Chemical
Border surface waters	<input type="checkbox"/>	<input checked="" 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 checked="" 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	<input checked="" type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<input type="checkbox"/>
Common agreed parameters	<input type="checkbox"/>

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

- *Possibility to have updated information;*
- *Contribution to monitoring actions in each country.*

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

- *Changes on institutional priority;*
- *Lack of financial, human and technical resources.*

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

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]

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?
United Nations Standards

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

- Notification and communication *(in some situations)*
- 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?

- 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?

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?

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:*
- Availability of information to the public
- Consultation on planned measures or river basin management plans⁴
- Public involvement
- Other *(please specify)*: [fill in]

12/05/10
JULIO THADÉU SILVA KETTELHUT
 General Coordinator
 Ministry of Environment – Brazil

⁴ Or, where applicable, aquifer management plans.

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.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Oiapoque River Basin - Brazil and French Guyana.*

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

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 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:

Doesn't exist Agreement.

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]

¹ In principle, Section II 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.

² 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*):

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?

Yes /No

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

- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: www.ana.gov.br

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

- *Lack of agreement among countries;*
- *Cost for data acquisition;*
- *Lack of equipment and technical personnel;*
- *The difference in quality of information in each country.*

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

- *Enable coordinated actions between countries;*
- *have a more reliable water resources management;*
- *Increased knowledge;*
- *Increased discussion of groundwater.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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? [United Nations Standard](#)

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

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? [Lack of agreement among countries.](#)

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?:

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴

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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *La Plata Basin – Brazil, Argentina, Uruguay, Paraguay and Bolivia.*

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

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:
La Plata Basin Treaty

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:

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

**** The information about La Plata sub-basins Quarai and Apa is in separate folders attached in this report .**

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

¹ In principle, Section II 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.

² 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 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*): *Argentina, Brazil, Uruguay, Paraguay and Bolivia*

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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 | <input checked="" type="checkbox"/> |
| Data collection and exchange | <input checked="" type="checkbox"/> |
| Joint monitoring | <input 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 | <input checked="" type="checkbox"/> |
| Exchange of experience between riparian States | <input checked="" type="checkbox"/> |
| Exchange of information on planned measures | <input checked="" type="checkbox"/> |

Joint planning and management

- | | |
|---|-------------------------------------|
| Development of joint regulations on specific topics | <input checked="" 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*): *Difficulties related to regional institutional changes.*

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

- *Strengthen of exchange of information;*
- *Have a locus for negotiation, among countries, related to water resources management.*

(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*):. <http://cicplata.org/wp-content/uploads/2016/12/tratado-de-la-cuenca-del-plata.pdf>

attached

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

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 | <input checked="" type="checkbox"/> |
| Bilateral commission | <input type="checkbox"/> |
| Basin or similar commission | <input type="checkbox"/> |
| Other (<i>please describe</i>): [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*) *Argentina, Uruguay, Paraguay, Brazil and Bolivia*

(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]

It is a joint secretariat called intergovernmental coordinating committee of the countries of the La Plata Basin (CIC).

A subsidiary body or bodies

Please list (e.g., working groups on specific topics):

- Intergovernmental Commite for the Paraguay-Paraná Waterway (CIH);*
- Financial Fund the Development of the La Plata Basin (FONPLATA).*

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

³This 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.

- 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:

- Unexpected planning delays

Please describe, if any: Not all countries have national water resources plans.

- Lack of resources

Please describe, if true: Lack of financial and local technical resources.

- Lack of mechanism for implementing measures

Please describe, if true: Different legal and institutional levels among countries.

- Lack of effective measures

Please describe, if true: Institutional and planning changes that occur in the Plata Basin countries.

- 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? *Approximately four times per year.*

(i) What are the main achievements with regards to the joint body? *Be the official locus for multilateral negotiations and decisions about water resources management among the countries.*

(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?

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?

Yes /No

If yes, please provide further details: [Strategic Action Plan for La Plata Basin made under a GEF Project](#).

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?

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?

Yes /No

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

Environmental conditions

Research activities and application of best available techniques

Emission monitoring data

Planned measures taken to prevent, control or reduce transboundary impacts

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: www.cicplata.org

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

- *Cost for data acquisition;*
- *Lack of equipment and technical personnel;*
- *The difference in quality of information among countries.*

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

- *Enable coordinated actions among countries;*
- *Have a more reliable water resources management.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

Yes /No

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

	Covered?	Hydrological	Ecological	Chemical
Border surface waters	<input type="checkbox"/>	<input checked="" 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 checked="" 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	<input checked="" type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<input checked="" type="checkbox"/>
Common agreed parameters	<input type="checkbox"/>

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

- *Possibility to have updated information;*
- *Contribution to monitoring actions in each country.*

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

- *Changes on institutional priority;*
- *Lack of financial, human and technical resources.*

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

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]

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?
United Nations Standards*

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

Notification and communication *(in some situations)*

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?

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?

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?

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 plans⁴

Public involvement

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

⁴ Or, where applicable, aquifer management plans.

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.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Quarai River Basin (Sub-basin La Plata Basin) – Brazil and Uruguay.*

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

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:
Quarai River Basin Agreement

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:

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]

¹ In principle, Section II 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.

² 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*): *Brazil and Uruguay.*

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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 | <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"/> |
| Elaboration of joint water quality objectives | <input type="checkbox"/> |
| Common early warning and alarm procedures | <input checked="" type="checkbox"/> |
| Exchange of experience between riparian States | <input checked="" type="checkbox"/> |
| Exchange of information on planned measures | <input checked="" type="checkbox"/> |

Joint planning and management

- | | |
|---|-------------------------------------|
| Development of joint regulations on specific topics | <input checked="" 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*):

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

- *Strengthen of exchange of information;*
- *Have a locus for negotiation, between countries, related to water resources management.*

(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*): <http://www.impo.com.uy/bases/decretos-ley-internacional/14748-1977/> attached

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

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 | <input type="checkbox"/> |
| Bilateral commission | <input checked="" type="checkbox"/> |
| Basin or similar commission | <input type="checkbox"/> |
| Other (<i>please describe</i>): [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*) *Brazil and Uruguay*

(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):

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

(e) What are the tasks and activities of this joint body?³

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

³This 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:

Unexpected planning delays

Please describe, if any: Economic and related problems

Lack of resources

Please describe, if true: Lack of financial and local personal resources.

Lack of mechanism for implementing measures

Please describe, if true: Different legal and institutional levels between countries.

Lack of effective measures

Please describe, if true:

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? *Approximately twice per year.*

(i) What are the main achievements with regards to the joint body? *Be the official locus for multilateral negotiations and decisions, about water resources management, between the countries.*

(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?

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?

Yes /No

If yes, please provide further details: *Strategic Action developed by a GEF Project.*

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?

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?

Yes /No

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

Environmental conditions

Research activities and application of best available techniques

Emission monitoring data

Planned measures taken to prevent, control or reduce transboundary impacts

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: www.cicplata.org ; www.ana.gov.br

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

- *Cost for data acquisition;*
- *The difference in quality of information in each countries.*

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

- *Enable coordinated actions between countries;*
- *Have a more reliable water resources management.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

Yes /No

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

	Covered?	Hydrological	Ecological	Chemical
Border surface waters	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Connected aquifers (or groundwaters)	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<input type="checkbox"/>
Common agreed parameters	<input type="checkbox"/>

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

- *Possibility to have updated information;*
- *Contribution to monitoring actions in each country.*

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

- *Changes on institutional priority;*
- *Lack of financial, human and technical resources.*

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

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]

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?
United Nations Standards

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

Notification and communication	<i>(in some situations)</i>	<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?

- 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?

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?

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: [Coordination Local Comittee Representatives](#)

Availability of information to the public

Consultation on planned measures or river basin management plans⁴

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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Amazon Aquifer System - Brazil, Bolivia, Colombia, Ecuador, Peru and Venezuela.*

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

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 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:

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]

¹ In principle, Section II 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.

² 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*):

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?

Yes /No

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

- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br>

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

- *Lack of agreement among countries;*
- *Cost for data acquisition;*
- *Lack of equipment and technical personnel;*
- *The difference in quality of information in each country.*

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

- *Enable coordinated actions among countries;*
- *have a more reliable water resources management;*
- *Increased knowledge;*
- *Increased discussion of groundwater.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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? [United Nation Standard](#)

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

Notification and communication	<input type="checkbox"/>
Coordinated or joint alarm system for accidental water pollution	<input type="checkbox"/>
Other (please list): [fill in]	
No measures	<input checked="" 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? *Lack of agreement among countries.*

Notification and communication	<input type="checkbox"/>
--------------------------------	--------------------------

- 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?:*

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴
- 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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Aquidauana-Aquidabán Aquifer System- Brasil and Paraguay.*

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

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 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:

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]

¹ In principle, Section II 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.

² 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*):

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?

Yes /No

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

- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br/>

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

- *Lack of agreement among countries;*
- *Cost for data acquisition;*
- *Lack of equipment and technical personnel;*
- *The difference in quality of information in each country.*

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

- *Enable coordinated actions among countries;*
- *have a more reliable water resources management;*
- *Increased knowledge;*
- *Increased discussion of groundwater.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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? [United Nations Standard](#)

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

Notification and communication	<input type="checkbox"/>
Coordinated or joint alarm system for accidental water pollution	<input type="checkbox"/>
Other (please list): [fill in]	
No measures	<input checked="" 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? *Lack of agreement among countries.*

Notification and communication	<input type="checkbox"/>
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- 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?:*

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴
- 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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Boa Vista Aquifer System – Serra Tucano – North Savanna- Brazil and Guyana.*

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

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 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:

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]

¹ In principle, Section II 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.

² 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*):

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?

Yes /No

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

- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br/>

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

- *Lack of agreement among countries;*
- *Cost for data acquisition;*
- *Lack of equipment and technical personnel;*
- *The difference in quality of information in each country.*

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

- *Enable coordinated actions among countries;*
- *have a more reliable water resources management;*
- *Increased knowledge;*
- *Increased discussion of groundwater.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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?

United Nations Standard

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

Notification and communication	<input type="checkbox"/>
Coordinated or joint alarm system for accidental water pollution	<input type="checkbox"/>
Other (please list): [fill in]	
No measures	<input checked="" 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? *Lack of agreement among countries!*

Notification and communication	<input type="checkbox"/>
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- 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?:*

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴
- 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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Caiuá/Bauru-Acaray Aquifer System - Brasil and Paraguay.*

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

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 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:

Doesn't exist Agreement.

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

¹ In principle, Section II 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.

² 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 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*):

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?
Yes /No
- (b) If yes, on what subjects are information and data exchanged?
- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br/>
- (e) What are the main difficulties and challenges to data exchange, if applicable? (*please describe*):
- *Lack of agreement among countries;*
 - *Cost for data acquisition;*
 - *Lack of equipment and technical personnel;*
 - *The difference in quality of information in each country.*
- (f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*):
- *Enable coordinated actions among countries;*
 - *have a more reliable water resources management;*
 - *Increased knowledge;*
 - *Increased discussion of groundwater.*
7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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?
[United Nations Standard](#)*

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

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

Notification and communication	<input type="checkbox"/>
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- 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?: Lack of agreement among countries.

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴

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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Chuy Aquifer System - Brasil, and Uruguay.*

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

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 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:

Doesn't exist Agreement.

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]

¹ In principle, Section II 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.

² 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*):

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?

Yes /No

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

- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br/>

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

- *Lack of agreement among countries;*
- *Cost for data acquisition;*
- *Lack of equipment and technical personnel;*
- *The difference in quality of information in each country.*

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

- *Enable coordinated actions among countries;*
- *have a more reliable water resources management;*
- *Increased knowledge;*
- *Increased discussion of groundwater.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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?

United Nations Standard

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

Notification and communication	<input type="checkbox"/>
Coordinated or joint alarm system for accidental water pollution	<input type="checkbox"/>
Other (please list): [fill in]	
No measures	<input checked="" 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? *Lack of agreement among countries.*

Notification and communication	<input type="checkbox"/>
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- 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?:*

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴
- 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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Costeiro Aquifer System - Brazil and French Guyana.*

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

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 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:

Doesn't exist Agreement.

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]

¹ In principle, Section II 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.

² 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*):

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?
Yes /No
- (b) If yes, on what subjects are information and data exchanged?
- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br/>
- (e) What are the main difficulties and challenges to data exchange, if applicable? (*please describe*):
- *Lack of agreement among countries;*
 - *Cost for data acquisition;*
 - *Lack of equipment and technical personnel;*
 - *The difference in quality of information in each country.*
- (f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*):
- *Enable coordinated actions among countries;*
 - *have a more reliable water resources management;*
 - *Increased knowledge;*
 - *Increased discussion of groundwater.*
7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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? [United Nations Standard](#)

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

Notification and communication	<input type="checkbox"/>
Coordinated or joint alarm system for accidental water pollution	<input type="checkbox"/>
Other (please list): [fill in]	
No measures	<input checked="" 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? [Lack of agreement among countries.](#)

Notification and communication	<input type="checkbox"/>
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- 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?:*

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴
- 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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Grupo Roraima Aquifer System – Brazil, Guyana and Venezuela.*

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

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 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:

Doesn't exist Agreement.

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

¹ In principle, Section II 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.

² 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 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*):

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?
 Yes /No
- (b) If yes, on what subjects are information and data exchanged?
- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br/>
- (e) What are the main difficulties and challenges to data exchange, if applicable? (*please describe*):
- *Lack of agreement among countries;*
 - *Cost for data acquisition;*
 - *Lack of equipment and technical personnel;*
 - *The difference in quality of information in each country.*
- (f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*):
- *Enable coordinated actions among countries;*
 - *have a more reliable water resources management;*
 - *Increased knowledge;*
 - *Increased discussion of groundwater.*
7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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? [United Nations Standard](#)

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

Notification and communication	<input type="checkbox"/>
Coordinated or joint alarm system for accidental water pollution	<input type="checkbox"/>
Other (please list): [fill in]	
No measures	<input checked="" 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? [Lack of agreement among countries.](#)

Notification and communication	<input type="checkbox"/>
--------------------------------	--------------------------

- 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?:*

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴
- 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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Guarani System Aquifer - Brasil, Argentina, Uruguay and Paraguay.*

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

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:
Guarani Aquifer Agreement

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:

Agreement not yet ratified by all countries.

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

¹ In principle, Section II 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.

² 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 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*): *Brasil, Argentina, Uruguay and Paraguay.*

(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 (*geothermal*)

Tourism

Nature protection

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

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

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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 | <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"/> |
| Elaboration of joint water quality objectives | <input type="checkbox"/> |
| Common early warning and alarm procedures | <input type="checkbox"/> |
| Exchange of experience between riparian States | <input checked="" type="checkbox"/> |
| Exchange of information on planned measures | <input checked="" type="checkbox"/> |

Joint planning and management

- | | |
|---|-------------------------------------|
| 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*):

- Lack of human, financial and technical resources;

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

- Strengthen of exchange of information;
- international cooperation;
- awareness of groundwater use;
- increasing knowledge.

(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*):

http://www.internationalwaterlaw.org/documents/regionaldocs/Guarani_Aquifer_Agreement-Portuguese.pdf

Copy Attached

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

Yes /No

If no, why not? (please explain):

The agreement has not been ratified for all countries.

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*)

(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):

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

(e) What are the tasks and activities of this joint body?³

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

³This 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.

- 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:
- Unexpected planning delays
Please describe, if any:
- Lack of resources
Please describe, if true:
- Lack of mechanism for implementing measures
- Lack of effective measures
Please describe, if true
- 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?

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

(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?

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?

Yes /No

If yes, please provide further details: [Strategic Action Program of Aquifer Guarani Project made under a GEF Project.](#)

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?

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?

Yes /No

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

Environmental conditions

Research activities and application of best available techniques

Emission monitoring data

Planned measures taken to prevent, control or reduce transboundary impacts

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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br>

If yes, please provide the web address: <http://www.mma.gov.br/agua/recursos-hidricos/item/8617-aqu%C3%ADfero-guarani>

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

- *Cost for data acquisition;*
- *lack of equipment and technical personnel;*
- *the difference in quality of information in each country.*

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

- *Enable coordinated actions among countries;*
- *have a more reliable water resources management;*
- *Increased knowledge;*
- *Increased discussion of groundwater.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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:

- *Possibility to have updated information;*
- *contribution to monitoring actions in each country.*

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

- *Changes on institutional priority;*
- *Lack of financial, human and technical resources.*

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

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]

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?
United Nations Standards*

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

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?

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?

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?

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 plans⁴

Public involvement

Other (please specify): [fill in]

⁴ Or, where applicable, aquifer management plans.

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.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Pantanal Aquifer System – Brasil, Bolivia and Paraguay.*

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

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 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:

Doesn't exist Agreement.

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?

¹ In principle, Section II 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.

² 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.

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*):

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?

Yes /No

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

- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br/>

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

- *Lack of agreement among countries;*
- *Cost for data acquisition;*
- *Lack of equipment and technical personnel;*
- *The difference in quality of information in each country.*

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

- *Enable coordinated actions among countries;*
- *have a more reliable water resources management;*
- *Increased knowledge;*
- *Increased discussion of groundwater.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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? [United Nations Standard](#)

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

Notification and communication	<input type="checkbox"/>
Coordinated or joint alarm system for accidental water pollution	<input type="checkbox"/>
Other (please list): [fill in]	
No measures	<input checked="" 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? [Lack of agreement among countries.](#)

Notification and communication	<input type="checkbox"/>
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- 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?:*

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴
- 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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Permo Carbonífero Aquifer System - Brasil and Uruguay.*

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

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 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:

Doesn't exist Agreement.

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

¹ In principle, Section II 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.

² 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 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*):

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?

Yes /No

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

- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br/>

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

- *Lack of agreement among countries;*
- *Cost for data acquisition;*
- *Lack of equipment and technical personnel;*
- *The difference in quality of information in each country.*

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

- *Enable coordinated actions among countries;*
- *have a more reliable water resources management;*
- *Increased knowledge;*
- *Increased discussion of groundwater.*

7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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? [United Nations Standard](#)

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

Notification and communication	<input type="checkbox"/>
Coordinated or joint alarm system for accidental water pollution	<input type="checkbox"/>
Other (please list): [fill in]	
No measures	<input checked="" 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? [Lack of agreement among countries.](#)

Notification and communication	<input type="checkbox"/>
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- 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?:*

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴
- 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.

⁴ Or, where applicable, aquifer management plans.

Section II. Information on each transboundary basin or group of basins

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.¹ In some instances, you may provide information on both a basin and one or more of its sub-basins, for example, where you have agreements² 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 III 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: *Serra Geral Aquifer System - Brasil, Argentina, Uruguay and Paraguay.*

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

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 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:

Doesn't exist Agreement.

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

¹ In principle, Section II 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.

² 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 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)*:

(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?

Procedural and institutional issues

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

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
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- 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*):

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

(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*):

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

Yes /No

If no, why not? (please explain):

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*)

(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):

Other features (please list): [fill in]

(e) What are the tasks and activities of this joint body?³

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

Capacity-building

³This 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:

Unexpected planning delays

Please describe, if any:

Lack of resources

Please describe, if true:

Lack of mechanism for implementing measures

Lack of effective measures

Please describe, if true

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?

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

(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?

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?

Yes /No

If yes, please provide further details:

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?

- 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?
Yes /No
- (b) If yes, on what subjects are information and data exchanged?
- Environmental conditions
- Research activities and application of best available techniques
- Emission monitoring data
- Planned measures taken to prevent, control or reduce transboundary impacts
- 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: <http://www.cprm.gov.br/> and <http://www.ana.gov.br/>
- (e) What are the main difficulties and challenges to data exchange, if applicable? (*please describe*):
- *Lack of agreement among countries;*
 - *Cost for data acquisition;*
 - *Lack of equipment and technical personnel;*
 - *The difference in quality of information in each country.*
- (f) What are the main benefits of data exchange on the transboundary waters subject to cooperation? (*please describe*):
- *Enable coordinated actions among countries;*
 - *have a more reliable water resources management;*
 - *Increased knowledge;*
 - *Increased discussion of groundwater.*
7. Do the riparian States carry out joint monitoring in the transboundary basin, river, lake or aquifer?

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	<input type="checkbox"/>
Joint and agreed methodologies	<input type="checkbox"/>
Joint sampling	<input type="checkbox"/>
Common monitoring network	<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:

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

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]

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? [United Nations Standard](#)

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

Notification and communication	<input type="checkbox"/>
Coordinated or joint alarm system for accidental water pollution	<input type="checkbox"/>
Other (please list): [fill in]	
No measures	<input checked="" 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? [Lack of agreement among countries.](#)

Notification and communication	<input type="checkbox"/>
--------------------------------	--------------------------

- 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?:*

12. Are procedures in place for mutual assistance in case of a critical situation?

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?

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 plans⁴
- 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.

⁴ Or, where applicable, aquifer management plans.

III. General information on transboundary water management at the national level

In this 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?

Yes /No

If yes, list the main national legislation:

- *National Water Resources Law;*
- *National Water Resources Plain;*
- *National Water Policy.*

- (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:

- *National Water Resources Plain;*
- *State Water Resources Plain;*
- *River Basin Water Resources Plain.*

- (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 (*e.g., in industry, mining, energy, municipal, wastewater management or other sectors*)?

Yes /No

If yes, for which sectors? (please list): *Yes, for industry, mining, energy, municipal, wastewater management, and others sectors.*

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?

Yes /No

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

- Monitoring of discharges
- Monitoring of physical and chemical impacts on water
- Monitoring of ecological impacts on water
- Conditions on permits
- Inspectorate
- 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 (*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
- Norms for uses of manure
- Bans on or norms for use of pesticides
- Others (*please list*): [fill in]

Economic and financial measures

- Monetary incentives
- Environmental taxes (such as fertilizer taxes)
- Others (*please list*): [fill in]

Agricultural extension services

Technical measures

Source control measures

- Crop rotation
- Tillage control
- Winter cover crops
- 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?

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?

Yes /No

If yes, please describe how:

(i) Does your country take specific measures to prevent the pollution of groundwaters?

Yes /No

If yes, please list the most important measures:

- Well protection perimeter;
- Protection of recharge areas;
- Control of soil contamination.

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): [fill in]

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):

Amazon River Basin Treat

La Plata Basin Treat

Mirim Lagoon Basin Treat

Quarai River Basin Agreement

APA River Basin Agreement

Guarani System Aquifer Agreement

Section IV. Final questions

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

Development

- *Difficulties related to regional institutional changes;*
- *Lack of financial, human and technical resources;*
- *Different Legislation among the countries;*
- *Not all countries have national water resources legislation;*
- *Different Levels of information of water resources data.*

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

- *Increasing of information of water resources (Ex.: La Plata Basin and Guarani Aquifer System Projects);*
- *Establishment of locus to discuss water resources management ((Ex.: La Plata Basin).*
- *Stakeholder and social participations (Ex.: Quarai River Basin)*

3. 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)*: [fill in]

Not aplicable

4. If you have any other comments please add them here *(insert comments)*: [fill in]
5. Name and contact details of the person(s) who filled out the questionnaire *(please insert)*:


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Date: June/13 /2017

Signature: [fill in]

Thank you very much for taking the time to complete this report.
