



European Union Water Initiative Plus for Eastern Partnership Countries
Republic of Belarus



**TERMS OF REFERENCE FOR LOCAL CONTRACTOR
“SPECIFIC IMPLEMENTATION ACTIVITIES: IMPROVEMENT OF THE NATIONAL
RIVER BASIN PLANNING FRAMEWORK (TCP 17.06-14-2017 (33140))”**

17 January 2020

1. Financing

European Union (ENI/2016/372-403)

2. Procedure

Single Tender Procedure according to EU PRAG

3. Contracting Authority

International Office for Water (IOW)

4. Nature of contract

Service contract

5. Time period of implementation

February 2020 – August 2020

6. Contract amount

Maximum amount 8,000 €

7. Background information

The EUWI+ project addresses existing challenges in both development and implementation of efficient management of water resources. It specifically supports the Eastern Partnership¹ countries to move towards the approximation to EU acquis in the field of water management with a focus on trans-boundary river basin management as identified by the EU Water Framework Directive (WFD).

The overall objective of the project is to improve the management of water resources in the EaP countries.

¹ The Eastern Partnership (EaP) is a policy initiative launched at the Prague Summit in May 2009. It aims to deepen and strengthen relations between the European Union and its six Eastern neighbours: Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine.

The specific objective is to achieve convergence of national policies and strategies with the EU Water Framework Directive, Integrated Water Resource Management (IWRM) and relevant Multilateral Environmental Agreements (MEAs).

The EUWI+ project is divided into three result areas as follows:

- Result 1: Legal and regulatory frameworks improved in line with the WFD, IWRM and MEAs;
- Result 2: River Basins Management Plans designed and implemented in line with the WFD principles;
- Result 3: Lessons learnt regularly collected, shared and communicated to stakeholders.

This assignment will contribute to the implementation of the Result 2, activity 2.3.2. “Technical Support in the elaboration and implementation of the pilot River Basin Management Plans (RBMPs)”.

This assignment concerns the implementation of specific measures (called “Specific Implementation Activities” or SIAs in the frame of EUWI+).

The development of RBMPs in Belarus arises directly from the requirement of the article 15 of the Water Code of the Republic of Belarus #149-3, 30.04.2014. RBMPs should be developed in the purpose of conservation and restoration of water resources for the 5 river basins districts of the country: Dnieper, Western Dvina, Western Bug, Nieman and Pripjat, for a timeframe of 5-10 years. The Ministry of natural resources and environmental protection (Minprirody) of the Republic of Belarus manages the development of RBMP engaging the concerned government authorities. Drafts of RBMPs are approving by joint decisions of relevant regional executive committees.

The requirements to the RBMPs development are establishing by the Minprirody through the specific document: « TCP 17.06.-14-2017 (33140), environmental protection and nature use, hydrosphere, requirements to the development, compilation and design of the projects of river basin management plans ». This is a framework technical document determining the structure, composition and design of RBMP.

8. Scope of works & deliverables

8.1. Scope of works

The main purpose of the assignment is to ensure the progressively approximation of Belarusian national water management framework including river basin planning process to the relevant EU legislation.

The present assignment is dedicated to the enhancement and up-dating of the national technical code (TCP): « TCP 17.06.-14-2017 (33140), environmental protection and nature use, hydrosphere, requirements to the development, compilation and design of the projects of river basin management plans ». The reviewed TCP will provide the possibility to develop national river basin management plans (RBMPs) in line with the EU Water Framework Directive (WFD) requirements.

This assignment can be considered as transposition of the EU WFD approaches in river basin planning to the national legislation framework.

8.2. Description of activities

The national RBMPs as well as national water management framework are in general similar to the EU WFD approach but still exist some technical differences. The key gaps that could be covered with the TCP enhancement are the following:

- more detailed characterization of river basin including all activities and uses impacting water resources and related ecosystems;
- enhanced pressures and impact analysis in the part of diffuse sources pollution and hydromorphological alterations;

- identification of protected areas in the part of economically significant species, bathing waters, vulnerable nitrates zones from agriculture, sensitive nutrients areas from treatment plants, special protected areas for birds and habitats;
- connection and development of monitoring with pressures and impact analysis data and risk assessment;
- establishing of environmental objectives to achieve good ecological status of water bodies and for the protected areas;
- economic analysis;
- program of measures extended to cost-benefit analysis, monitoring of measures implementation, and linked with objectives, risk assessment, water bodies and pressures;
- governance and improvement of public involvement;
- etc.

The list of maps required can be reviewed as well as the tables in annex (e.g. systematic reference to the water bodies codes, addition of a table synthesising status, pressures, risk, objective per water body).

Beyond the content of RBMPs, two aspects need to be clarified: duration of RBMPs cycle (WFD requires the RBMPs updating each 6 years), legal scope of RBMPs to strengthen its implementation.

The usage and replication of the technical approaches of EU WFD and guidance documents of Common implementation strategy for WFD will contribute to approximation of national river basin planning process to EU modern practices and attitude.

With this assignment, the TCP will be refined for the topics listed above as well as for other topics identified by the contractor and during the stakeholders' consultation. The existing RBMPs (approved and on-going) in the Republic of Belarus constitute a relevant basis for this assignment.

The TCP will be submitted to the concerned authorities and stakeholders to collect suggestions, comments, and reviewed in order to be ready for approval by the decision of the Minprirody.

8.3 Deliverables

The deliverables will include:

- Inception report on consultation with beneficiaries on acceptable TCP enhancements and corrections;
- First draft of the TCP refined for mailing to stakeholders;
- Final draft of the TCP refined with account of stakeholders comments and suggestions.
- All the comments collected.

8.4 Format

All the documents consulted, maps, data and information collected, interviews' records will be transmitted in their original forms (paper, files, GIS layers) and their valorised forms (data base, Excel, etc.).

Reports will be transmitted in digital form which can be corrected (MS Office 2007).

The report as well as the tables will be produced in National language or Russian and in English.

The document produced will have to follow the format of existing TCP.

8.5 Meetings & trainings

Regular meetings will be held with the contractor by the project team (at least 2 meetings).

A workshop will be organized in Summer 2020 in order to present the result. The contractor of this Tender will present the new TCP during this workshop, therefore the contractor will have to prepare

specific presentations both in National language or Russian and English. Note that the contractor will not have to organize this workshop but to attend to this event in his own expense.

9. Implementation modalities

9.1 Schedule

Duration of the assessment will be up to 7 months and is expected to start from February 2020 and finish in August 2020. The contractor will have to inform regularly the experts' team about the problems and the progress. The experts' team will be allowed to question the contractor.

It is anticipated however that the draft deliverable will be first reviewed by the project team and the beneficiaries (RBMP thematic focal point) and if necessary will be returned to the implementing institution for finalization and re-submission. Therefore, the last Draft report will be submitted to the Project Team at least 1 month before the deadline, the last reviewed report must be finalized in August 2020 ready for approval by the Ministry.

Summary of the work schedule

Deliverables	Approx. number of pages incl. annex	Language of deliverable	Start date	Due date for draft report	Finalization
Inception report on consultation with beneficiaries on acceptable TCP enhancements and corrections	<20	National language or Russian, English	February 2020	March 2020	March 2020
First draft of the TCP refined for mailing to stakeholders	<30	National language or Russian, English	March 2020	April 2020	May 2020
Final draft of the TCP refined with account of stakeholders comments and suggestions	<30	National language or Russian, English	June 2020	July 2020	August 2020
All the comments collected	Table	National language or Russian, English	May 2020	July 2020	August 2020

9.2 Implementation modality

Works shall be implemented by a local company or group of NGO(s), university, research institution, etc. that are not representing the project beneficiaries. The studies will be closely coordinated, assisted and monitored by the project team, consisting mainly of the thematic expert (RBMP), the country representatives, the national thematic focal points for RBMP, and the National Focal Point or his/her representative. Close relationships will be formed and maintained with the beneficiary who will own the product and take full ownership of the RBMP.

Technical issues as data description (producers, availability, quality, scales, collection frequency, etc), related difficulties to collect them, data formatting requirements, methodological aspects, etc. will be discussed with the project team.

The contractor will have to designate competent specialists with experiences in River Basin Management Planning in the Republic of Belarus, knowledge of the European Water Framework Directive as well as a coordinator who will be responsible of managing these specialists, harmonising the document, and will inform regularly the project team.

9.3 Contact details

The responsible person at national level (National Focal point):

Ms. Victoriya VORONOVA
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The coordinator on behalf of EUWI+ (relevant country representative):

M. Alexandr STANKEVICH
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The responsible thematic leader:

Mr. Philippe SEGUIN
International Office for Water
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10. Participation to the tender

Interested parties (individual and legal persons) are invited to inquire the full tender dossier containing instructions and further information about the tender procedure from Ms. Ilke CICEKOGLU, Project Assistant, International Office for Water (IOW) and Mr. Philippe SEGUIN, Project Manager, International Office for Water (IOW).

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Email address: p.seguin@oieau.fr

Deadline for submission of the technical and financial offer is 5 February 2020, 5:00 PM (CET).

Annexe: TCP 17.06.-14-2017 (33140), environmental protection and nature use, hydrosphere, requirements to the development, compilation and design of the projects of river basin management plans

Environment Protection and Nature Use
Hydrosphere
**REQUIREMENTS FOR THE DEVELOPMENT, COMPILATION AND
COMPLETION OF DRAFT RIVER BASIN MANAGEMENT PLANS**

Ахова навакольнага асяроддзя і прыродакарыстанне
Гідрасфера

ПАТРАБАВАННІ ДА РАСПРАЦОЎКІ, СКЛАДАННЯ І АФАРМЛЕННЯ ПРАЕКТАЎ ПЛАНАЎ КІРАВАННЯ
РАЧНЫМІ БАСЕЙНАМІ

Official Edition



Ministry of Natural Resources and Environment Protection of the Republic
of Belarus, Minsk (Minprirody)

Key words: river basin, monitoring of surface water and monitoring of groundwater, water resources, water management, water economy balances, ecological status of surface water bodies

Foreword

The goals, basic principles and provisions on the state regulation and management in the sphere of technical regulation and standardization are established by the Law of the Republic of Belarus "On Technical Norms and Standardization".

The goals, basic principles and provisions on the state regulation and management of technical norms and standardization in the sphere of environment protection are established by the Law of the Republic of Belarus "On Environment Protection".

1. DEVELOPED by the Republican Unitary Enterprise "Central Scientific-Research Institute for the Complex Use of Water Resources". BROUGHT IN by the Ministry of Natural Resources and Environment Protection of the Republic of Belarus.

2. APPROVED AND ENACTED by Resolution of the Ministry of Natural Resources and Environment Protection of the Republic of Belarus of April 26, 2017, No. 4-T.

3. INTRODUCED FOR THE FIRST TIME

This Technical Code of Common Practice cannot be reproduced, copied and disseminated as an official publication without a permit of the Minprirody of the Republic of Belarus.

Published in the Russian Language

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Охрана окружающей среды и природопользование
Гидросфера
**ТРЕБОВАНИЯ К РАЗРАБОТКЕ, СОСТАВЛЕНИЮ И ОФОРМЛЕНИЮ
ПРОЕКТОВ ПЛАНОВ УПРАВЛЕНИЯ РЕЧНЫМИ БАСЕЙНАМИ**

Ахова навакольнага асяроддзя і прыродакарыстанне
Гідрасфера
ПАТРАБАВАННІ ДА РАСПРАЦОЎКІ, СКЛАДАННЯ І АФАРМЛЕННЯ ПРАЕКТАЎ ПЛАНАЎ КІРАВАННЯ
РАЧНЫМІ БАСЕЙНАМІ

**Environment Protection and Nature Use
Hydrosphere
REQUIREMENTS FOR THE DEVELOPMENT, COMPILATION AND COMPLETION OF DRAFT RIVER
BASIN MANAGEMENT PLANS**

Effective Date: June 1, 2017

1. Scope

This Technical Code of Common Practice (hereinafter – the Technical Code) defines the requirements for designing, compiling and executing Draft River Basins Management Plans (hereinafter – Draft Plans) shall be used when rendering services in the sphere of environment protection in accordance with STB 1803.

2. Normative References

This Technical Code uses references to the following Technical Normative Legal Acts in the sphere of technical regulation and standardization (hereinafter – TNLAs):
TKP 17.06-03-2008 (02120) Environment Protection and Nature Use. Hydrosphere. Order of Drawing Up Water Economic Balances
TKP 17.13-04-2011 (02120) Environment Protection and Nature Use. Analytical Control and Monitoring. Rules of Monitoring Surface Water Status by Hydrochemical and Hydrobiological Indicators
TKP 17.13-07-2013 (02120) Environment Protection and Nature Use. Analytical Control and Monitoring. Definition Order and Requirements for Placing Surface Water Monitoring Stations
TKP 17.13-08-2013 (02120) Environment Protection and Nature Use. Analytical Control and Monitoring. Rules of Determining the Chemical (Hydrochemical) Status of River Ecosystems
TKP 17.13-09-2013 (02120) Environment Protection and Nature Use. Analytical Control and Monitoring. Rules of Determining the Chemical (Hydrochemical) Status of Lake Ecosystems

Note: When using this TKP, it is advisable to check the validity of TNLAs under the catalogue, compiled as on January 1 of the current year, and for the relevant information indicators published this year. If the reference TNLAs have been replaced (modified), then when using this TKP, the replaced (modified) TNLAs shall be used as guides. If the referenced TNLAs have been cancelled without replacement, the provisions, in which they are referenced, are applied in the part that does not affect this reference.

STB 17.06.01-01-2009 "Environment Protection and Nature Use. Hydrosphere. Water Use and Protection. Terms and Definitions" STB 17.13.04-01-2012/EN 14614:2004
Environment Protection and Nature Use. Analytical Control and Monitoring. Manual for

Evaluating Hydromorphological Indicators of River Status

STB 17.13.04-02-2013/EN 15843:2010 Environment Protection and Nature Use. Analytical Control and Monitoring. Manual for Evaluating the Alteration Degree of Hydromorphological Indicators of River Status

TKP 17.13-10-2013 (02120) Environment Protection and Nature Use. Analytical Control and Monitoring. Rules of Determining the Ecological (Hydrobiological) Status of River Ecosystems

TKP 17.13-11-2013 (02120) Environment Protection and Nature Use. Analytical Control and Monitoring. Rules of Determining the Ecological (Hydrobiological) Status of Lake Ecosystems

TKP 17.13-21-2014 (02120) Environment Protection and Nature Use. Analytical Control and Monitoring. Procedure of Classifying Surface Water Bodies by Ecological Status

3. Terms and Definitions

This Technical Code uses the terms as established in [1]-[2], as well as the following terms with the corresponding definitions:

3.1. Protected areas: Territories adjacent to surface water bodies subject to a special protection and use regime, or those subject to special protection (specially protected natural areas, water protection zones and coastal strips, places for use of surface water bodies for recreation, sports and tourism, the national ecological network and biosphere reserves);

3.2. Ecological status of surface water bodies (or parts thereof): The status (condition) of a surface water body (or of parts thereof), defined on the basis of hydrobiological indicators with the use of hydrochemical and hydromorphological indicators.

4. General Provisions

4.1. Draft Plans are developed for the basins of the Dnieper, Western Dvina, Western Bug, Neman and Pripjat Rivers for the conservation and restoration of water bodies, as well as for the integrated (complex) use of water resources.

4.2. The Ministry of Natural Resources and Environmental Protection of the Republic of Belarus (Minprirody) shall organize the development of Draft Plans by involving specialists from the interested government bodies (organizations), and scientific institutions, which possess the necessary professional skills in the field of water protection and use.

4.3. The sources of physiographic, hydrological, hydrogeological and hydrometeorological information on water bodies of the river basin are as follows:

- The State Water Cadastre;
- The State Land Cadastre;
- The official statistical information on water management (use);
- Monitoring data of surface water and monitoring data of groundwater;
- Results of earlier scientific-research works of studying water bodies in the river basin;
- Results of previous complex geological and hydrogeological works.

5. Requirements for Designing Draft Plans

5.1. The development of Draft Plans assumes performance of the following work types:

5.1.1. Preparatory works:

- Selection of necessary cartographic materials;
- Collection and systematization of information on hydrobiological, hydromorphological and hydrochemical indicators of surface water bodies;
- Collection and systematization of information on hydrogeological characteristics of groundwater bodies in the river basin under study;
- Collection and systematization of information on the hydrometeorological characteristics of the river basin;
- Data on the river flow of the basin;
- Data on pollution sources of surface water and groundwater;
- Information on observation points of the state observation (monitoring) network over the status of surface water and groundwater;
- Data and materials describing the existing natural conditions and the nature of land use, including the terrain relief and land types;
- Analysis of functional use of the territory under study;
- Identification (delineation) of surface water and groundwater bodies with the definition of the final number of water bodies of the river basin for which anthropogenic loads on them must be assessed;
- The definition of water bodies at risk not to achieve the "good" ecological status. For groundwater bodies – of the "good" chemical and quantitative status.

5.1.2. Field works (studies):

- A survey of surface water bodies at risk and not covered by regular observations.

5.1.3. Cameral works:

- Analysis and generalization of the results of field works;
- Definition of loads and possible impact thereof on water bodies;
- Awarding surface water bodies (parts thereof) with ecological status;
- Drawing up a location scheme (layout) of observation points over the status of surface water and groundwater of the state observation (monitoring) network;
- Other cartographic materials prepared with the use of geoinformation systems.

5.2. Based on the results of the works carried out, the environmental problems of the river basin and the ways of their solution are identified; the perspective use of water resources in the river basin under study is defined; proposals for optimizing the layout of observation points of the state monitoring network of surface water and groundwater are developed; as well as activities (measures) are developed aimed at improving the ecological status of water bodies (or parts thereof). The list of activities is formed based on the ranking of their implementation in terms of importance for achieving the "good" ecological status of the surface water bodies (or parts thereof).

6. Requirements for Compiling Draft Plans

6.1. The Draft Plans shall contain the following sections:

- "Characteristics of the river basin"
- "Measures to define the ecological status of surface water bodies (or parts thereof)"
- "Identification of ecological problems of the river basin and ways to solve them"
- "Monitoring of surface water and monitoring of groundwater, including the layout of the state network of observation (monitoring) points over the status of surface water and groundwater and proposals for optimization thereof"

- "Results of studies on the promising use of water resources"
- "Water economic balances"
- "Activities (measures) aimed at improving the ecological status of surface water bodies (or parts thereof)"

6.2. The Section "Characteristics of the river basin" shall include:

- An assessment of the quantitative and qualitative indicators of the status of water within the river basin;
- Data on the hydrobiologic, hydromorphological and hydrochemical indicators of surface water bodies, as well as on hydrogeological characteristics of groundwater bodies in the studied river basin;
- Data on hydrometeorological characteristics of the river basin, river runoff (flow) and resources and reserves of the groundwater of the basin;
- Data and materials describing the existing natural conditions and the nature of land use, including the terrain relief and land types;
- Data on the surface water bodies related to inland waterways open to navigation;
- General information on the hydropower potential of the river basin water resources; identification (delineation) of surface water and groundwater bodies with the definition of the finite number of the water bodies of the river basin, for which anthropogenic loads shall be estimated;
- Data on protected areas (territories).

The criterion for identification (delineation) of a watercourse (river) is the catchment area of this watercourse of more than 100 km².

The criterion for identification (delineation) of a body of water (lake, pond, reservoir) is the area of its water surface of more than 1 km².

The identification (delineation) of groundwater bodies shall be carried out by the spread area of aquifers (complexes), including the first aquifer from the ground surface and the aquifers (complexes) that are used (or can be used in future) for domestic and drinking needs.

The data on protected areas shall include information on water protection zones and coastal strips, on specially protected natural areas (territories), on sanitary protection zones for drinking water sources located within the river basin.

6.3. The Section "Measures to define the ecological status of surface water bodies (or parts thereof)" shall include the definition of the ecological status of all identified surface water bodies based on hydrobiological indicators using hydrochemical and hydromorphological indicators.

For each identified (delineated) surface water body, an evaluation of hydrobiological, hydrochemical and hydromorphological indicators shall be made in accordance with TKP 17.13-04, STB 17.13.04-01 and STB 17.13.04-02.

The definition of the ecological status of surface water bodies with account of hydrobiological, hydromorphological, hydrochemical indicators shall be carried out in accordance with TKP 17.13-21.

For surface water and groundwater bodies, the assessment shall be based on the observation data of the National Environmental Monitoring System of the Republic of

Belarus. In the absence of such data, the assessment shall be based on field studies and the results of scientific-research works.

For groundwater bodies, the assessment of the chemical status shall be carried out in accordance with sanitary norms and rules [3].

6.4. The Section "Identification of ecological problems of the river basin and ways to solve them" shall include the information on:

- Point and dispersed (diffuse) sources of polluting surface water and groundwater;
- The recreational load on surface water bodies;
- Surface water bodies at risk from pollution by wastewater discharges;
- Hydromorphological changes of surface water bodies.

In order to assess the anthropogenic load, identify causes and sources of polluting water bodies as a result of economic activities, identifying environmental problems and measures for solving them, an analysis is undertaken of the information obtained from the undertaken field studies, from the State Water Cadastre, on economic development of the river basin territory, volumes of extraction (intake) of water from water bodies, and discharges of sewage into surface water bodies of the river basin in question, including the following:

- Characteristics of agricultural use of the territory within the river basin (the area and types of agricultural lands; the specific weight of crop production and livestock in the volume of gross agricultural production; data on the types of fertilizers and chemical protection products used; information on the facilities for storage and disposal of chemical plant protection products; characteristics of livestock facilities; information on irrigation fields with wastewater with an assessment of compliance with the established irrigation standards, etc.);
- Characteristics of industrial use of water resources and water bodies in the river basin (volumes, annual distribution and dynamics of water extraction and discharges, and wastewater discharges, etc.);
- Characteristics of the use of water resources for energy purposes;
- Characteristics of household and domestic water use within the river basin (volumes, intra-annual distribution and dynamics of water extraction (intake) and discharges, water consumption per capita, losses and unaccounted water expenditures, etc.);
- Characteristics of transport use of water bodies of the river basin (navigable ways and their parameters, etc.);
- Characteristics of recreational use of water bodies within the river basin;
- Characteristics of specially protected natural areas of the river basin (boundaries and areas, restrictions on economic activities, etc.).

The definition of the anthropogenic load shall be carried out with account of all the sources that have a negative impact on water bodies.

A list shall be compiled of surface water bodies, for which the "good" or "excellent" ecological status will not be reached by the end of the plan's period; and the sources that negatively affect the water bodies are also established and ranked according to the degree of significance. Proposals shall be formulated to address identified environmental problems in the river basin.

6.5. The Section "Monitoring of surface water and monitoring of groundwater, including the layout of the state network of observation (monitoring) points over the status of surface

water and groundwater and proposals for optimization thereof" shall contain information on the existing observation (monitoring) network of surface water and groundwater in the river basin, as well as proposals on the optimization thereof.

Based on the analysis of the existing state observation (monitoring) network over the status of surface water and groundwater, and identified environmental problems of the river basin, proposals shall be formulated on how to optimize the existing observation (monitoring) points (stations), as well as to develop automated quality control systems of surface water.

Suggestions for optimizing the existing network of surface water monitoring are developed with account of the requirements of TKP 17-13-07.

6.6. The Section "Results of studies on the promising use of water resources" shall include an economic analysis of water use, carried out to define the perspective use of water resources in the river basin.

For this purpose, information shall be retrieved from state bodies and other organizations, including the following:

- Data on the surface water bodies provided into separate (isolated) water management and lease;
- Data on water intakes from groundwater (complexes of hydro-technical facilities and structures);
- Data on places of using surface water bodies for recreation, sports and tourism;
- Data on the socio-economic development of the river basin territory, including changes in the population, plans and programmes for the development of industrial and agricultural sectors, environment protection, etc.;
- Data on management systems for the use and protection of water bodies in terms of protection from the harmful effects of water in the area of the river basin in question.

Based on the results of the researches, proposals shall be formulated on promising directions for the use of the river basin water resources.

6.7. The Section "Water economic balances" shall include the calculation materials, which allow comparing the demand for water with the quantity and quality of available water resources at certain times in the territory of the river basin.

The aim of compiling water economic balances is to assess the adequacy of water resources within the river basin to meet the needs of water users, while avoiding the depletion of water resources and deterioration of water quality of water bodies.

The calculation and completion of water economic balances shall be carried out in accordance with the requirements of TKP 17.06-03.

6.8. The Section "Activities (measures) aimed at improving the ecological status of surface water bodies (or parts thereof)" shall include activities aimed at reducing the flow of pollutants into water bodies from point and diffuse pollution sources, and activities aimed at rational (sustainable) use of water resources, and reducing the negative impact of other sources, leading to deterioration in the ecological status of water bodies.

The list of activities is formed based on the ranking of their implementation by the importance degree, and shall include the following:

- Priority (first-order) measures, the implementation of which will help maintaining the "good" or "excellent" ecological status of water bodies and progressive reduction of the negative impact on water bodies;
- Additional measures, the implementation of which will improve the ecological status of those surface water bodies that are at risk of not achieving the "good" ecological status.

The list of activities (measures) shall define the timeframes and expected indicators of implementing thereof in accordance with Table 21 of the Annex to this Code.

7. Requirements for Completing Draft Plans

7.1. Draft Plans are issued in the form of an explanatory note (not more than 100 pages) and graphic materials (on paper and electronic carriers). If there is a discrepancy between the records on paper and electronic carriers, the priority belongs to paper records.

7.2. Graphic materials consist of:

- Tables drawn up in accordance with the Annex to this Code; and
- Cartographic materials prepared using geoinformation systems.

The cartographic materials shall include:

- An administrative-territorial map-layout of the river basin;
- A landscape map-layout with highlighted specially protected natural areas and recreation zones;
- An identification map of surface water bodies;
- A hydrogeological map-chart;
- Maps-layouts of groundwater protection;
- A map-layout of land use (land types);
- A map-layout of point pollution sources of (fuelling stations, purification facilities, including filtration fields, livestock farms (complexes), facilities for storing fertilizers and petroleum products, waste storage facilities, etc.), with indication of observation points of local monitoring;
- A map-layout of the location of observation points over the status of surface water;
- A map-layout of the location of observation points over the status of groundwater;
- A map-layout of ecological status of surface water bodies;
- A map-layout of the forecasted changes in the river flow of the basin under study for the plan period (with account various scenarios of climate change);
- A map-layout for optimizing the observation points over the status of surface water and of groundwater.

7.3. After the expiration of the approved plan, its subsequent version shall additionally include an assessment of the effectiveness of the implemented measures aimed at improving the ecological status of surface water bodies (or parts thereof), as well as the reasons for which the planned activities have not been fully implemented [4].

7.4. It is allowed to include into the Draft Plan other sections, tabular and cartographic materials, in addition to those envisaged, with account of the specifics of the river basin.

Literature

- [1] Law of the Republic of Belarus "On Environment Protection" of November 26, 1992, No. 1982-XII
- [2] Water Code of the Republic of Belarus of April 30, 2014, No. 149-3
- [3] SanPiN 10-124 RB 99 (Sanitary Norms and Rules). Potable Water. Hygienic Requirements for the Quality of Water Supplied by Centralized Water Supply Systems. Quality Control
- [4] Directive 2000/60/EC | Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000, establishing a framework for Community action in the field of water policy

Annex (recommended)

Table 1 – Description of River Flow within River Basin

River Flow Rate, km ³ /year				
Local		Overall		
Average Annual Flow	With Security of 95%	Average Annual Flow	With Security of 95%	In 20__

Table 2 – Groundwater Resources Reserves within River Basin

Region	Groundwater Resources, km ³ /year		Stocks Available, km ³ /year	Groundwater Extraction in 20__, km ³ /year
	Natural	Forecasted		

Table 3 – Main Characteristics of Surface Water Bodies (Reservoirs) within River Basin

No. on Map	Name and Location of Water Body	Water Body Type	Water Surface Area, F, ha	Length, L, m	Average Width, B _{av} , m	Maximum Width, B _{max} , m	Average Depth, H _{av} , m	Current Use of Water Body	Use of Adjacent Territory	Perspective Use of Territory

Table 4 – Main Characteristics of surface Water Bodies (Watercourses) within River Basin

No. on Map	Name and Location of Water Body	Water Body Type	Length, L, m	Catchment Area, m ²	Current Use of Water Body	Utilization of Adjacent Territory	Perspective Use of Territory

Table 5 – Description of Water Use within River Basin, in million m³

Region	Volume of Extracted Water		Volume of Consumed Water							Volume of Water Discharged into Environment		Irretrievable Water Consumption	Water Consumption in Recycling Water Systems	Water Consumption in Recycling-Successive Water Systems
	Ground water	Surface Water	Total	Split by Water Uses						Total	Into Surface Water Bodies			
				For Household Use and Drinking	For Industry	For Agriculture	For Energy Sector	For Medical Use	For Other Purposes					

Table 6 – Data on Water Consumers Harmfully Affecting Surface Water Bodies*

Name of Water Consumer	Name and Location of Water Receiver	Influence Type	Influence Indicator	Impact Percentage of the Total for River Basin	Share of Contaminants in Waste Water, Discharged into Surface Water Body, in Total Weight of These Substances for the River Basin				
					Contaminant Name (Quality Indicator)	Contaminant Name (Quality Indicator)	Contaminant Name (Quality Indicator)	Contaminant Name (Quality Indicator)	Contaminant Name (Quality Indicator)

* Average annual data for the last 5 years prior to the start of designing the Draft Plan

Table 7 – Surface Water Bodies under the Greatest Anthropogenic Load from Waste Water Discharge*

Name of Water Body (Monitoring Point)	Volume of Discharged Waste Water Containing Contaminants, Million m ³		Priority Contaminant
	Total	Insufficiently Purified	

* Average annual data for the last 5 years prior to the start of designing the Draft Plan

Table 8 – List of Working Hydrology Posts in Rivers and Canals

Post No.	Name of Water	Post Location	Distance from	Watershed Area,	Zero Mark of the Post	Opening Date of the Post

	Body	(Name)	Estuary, km	km ²	Height, m	Altitude System	

Table 9 – List of Working Hydrology Posts on Lakes and Reservoirs

Post No.	Name of Water Body	Post Location (Name)	Area, km ²		Zero Mark of the Post		Opening Date of the Post
			Of Watershed	Of Reservoir Water Surface	Height, m	Altitude System	

Table 10 – List of Monitoring Stations Over Surface Water Bodies by Hydrochemical Indicators

No.	Name of Water Body	Location of Monitoring Point (Cross-Section)	Distance from Estuary, km	Opening Year of Point

Table 11 – List of Monitoring Stations Over Surface Water Bodies by Hydrobiological Indicators

No.	Name of Water Body	Location of Monitoring Point (Cross-Section)	Distance from Estuary, km	Opening Year of Point

Table 12 – List of Monitoring Stations Over Surface Water Bodies by Hydromorphological Indicators

No.	Name of Water Body	Location of Monitoring Point (Cross-Section)	Distance from Estuary, km	Opening Year of Point

Table 13 – Ecological Status of Surface Water Bodies in 20__

Name of Water Body	Monitoring Point	Ecological Status

Table 14 – List of Monitoring Points Over Groundwater in the Territory of River Basin

Name of Monitoring Point	Well No.	Geological Index of Aquifer (Complex)	Controlled Indicators

Table 15 – List of Surface Water Bodies, Granted into Separate Water Management in 20__

Name of Water Body	Name of Water Consumer	Decision of Local Executive and Regulatory Body	Period of Separate Water Use	Aims of Water Use	Length of watercourse Section, Provided for Separate Water Management, km

Table 16 – List of Surface Water Bodies, Granted into Lease for Fishery in 20__

Name of Water Body	Renter's Name	Decision of Local Executive and Regulatory Body	Lease Term	Water Use Purpose

Table 17 – List of Surface Water Bodies, Considered as Internal Water Routes Opened for Navigation

Name of Water Body	Location of borders of Fairway Section of Water Body	Length of Fairway Section, km

Table 18 – Data on Water Protected Areas and Shore Strips for Identified Surface Water Bodies

Name of Water Body	Dimension (Width)		Document Establishing the Width of Water Protection Area and Shore Strip
	Of Water Protection Area	Of Shore Strip	

Table 19 – Data on of Surface Water Bodies, Used for Recreation, Sports and Tourism, in Localities, Assigned by Local Executive and Regulating Bodies for 20__

Name of Surface Water Body	Place of Using Surface Water Body for Recreation, Sports and Tourism (Region, District, Dwelling Settlement)	Decision of Local Executive and Regulatory Body, Defining the Place of Using Surface Water Body for Recreation, Sports and Tourism	Existing Recreation Load	Recreation Potential

Table 20 – Data on Facilities Causing Damage to Quality of Surface and Groundwater Bodies, Located in Water Protection Areas and Shore Strips

Name of Organization, Location, Surname, Name (If Available) of Individual Entrepreneur, Residence Address	Name of Facility Negatively Affection Water Quality	Location of the Facility Negatively Affecting Water Quality (Water Protection Area or Sore Strip)	Recommended Measures	Execution Dates

Table 21 – Measures Aimed at Improving Ecological Status of Surface Water Bodies (Parts Thereof)

Description of Measures	Aim of Measures	Expected Results after Measures Implemented	Implementation Dates
First-Order (Priority) Measures			
Additional Measures			

PERFORMERS