

QUESTIONNAIRE REGARDING THE STATE OF APPLICATION OF THE WATER FRAMEWORK DIRECTIVE 2000/60/EC

PARTNER [DIRECCIÓN GENERAL DE TRANSPORTES Y PUERTOS.](#)

REGION [MURCIA](#)

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PART 1: GOVERNANCE

Internal Governance and budget

- Do you have a political delegate specially dedicated to WFD policy ?

[No.](#)

- Do you have an official WFD policy identified with a publishable document in a website?

[Yes, the information about the implementation of the Water Framework Agreement for the coastal water](#)

[of the Murcia Region available at the website : Medio Acuatico.](#)

- What is your office dedicated to WFD policy,

[Security Service and Environmental Inspection, Department of Aquatic habitat from the General Department of Planning, Evaluation and Environmental Control of the Ministry of Agriculture and Water from the Murcia Region.](#)

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- Do you have a specialized budget for WFD policy ?

Yes. A part of the budget goes to the implementation of the Water Framework Agreement (e.g. design and execution of the working and security net for the state establishment and the ecological potential of the coastal water volume of the Murcia Region; Funding projects for investigation which help with the correct implementation of the Agreement, etc.)

Tools of Maritime policies

- Do you have a database or a GIS or a part of your global GIS dedicated to WFD? (You can give a link for MAREMED website)

Yes, we have a database with the annual results of the operation and security net designed to fulfill the requirements of the Water Framework Agreement. The database, as well as the maps that show the coastal water volume at the website: Medio Acuatico.

The Segura Hydrographical Confederation has a GIS : [Confederación Hidrográfica del Segura](#)

- Do you have a WFD consultation structure with maritime activities representant ?

No, but there is a Committee of Relevant Authorities made up in 2008, depending of the State Management.

Working groups:

- Protection of the water quality (coordinated by the Water Inspection)
- Hydrological planification(coordinated by the OPH)- Subgroups:
 - Information systems
 - Supply
 - Agriculture
 - Shallow and coastal water

Duties (art. 7 del RD 126/2007):

- a) Favour the cooperation in the practise of the competitions related to the water protection hold by the different Civil Service in the bosom of the respective hidrographical district.
- b) Impulse the Civil Service to take the adequate measures demanded by the fulfilment of the protection rules of the adapted text of the Water Law.

- c) Provide the European Union, through the relevant Organisms of the Government's Civil Service, according to the current rules, with the information related to the respective hidrographical district.

- Do you have a regular consultation event on WFD theme or a regular publication for professional or public?

No, but the Committee of Relevant Authorities has two meetings per year.

Bottom up governance; for WFD theme

Do you have common tools, formal relations, or data exchange on WFD thematic with your State?

Yes, we have a close collaboration and a data exchange with the Ministry of Environment, Rural and Sea, with the purpose of development of the Hydrological Plan of the Segura basin, so you can fulfil the Article 13 of the Water Framework Agreement.

Do you have common tools, formal relations, or data exchange on WFD thematic with EU?

Yes, there is a data exchange to contribute to the process of intercalibration of the proposed methods by the different member countries for the establishment of the ecological state coastal waters. This process of intercalibration is coordinated and supervised by the European Commission (through the Joint Research Center). The Murcia Region is actively taking part in the second phase of intercalibration (2009-2011)

Do you have common tools, formal relations, or data exchange on WFD thematic with MAP or one of its RAC?

No.

Top down governance; for WFD theme

Did you transfer management or do you have a co-management process for WFD with:

- other levels of local government;
- professionals;
- NGOs

No.

Relations with the research organisations

Did you create programs of exchange of needs and results with your searchers in the WFD themes?

No.

Do you work in any way with private or public research institutions (private companies, universities, etc.)

Yes, we have financed different investigation and technical projects related with the Water Framework Agreement. These projects have been carried out by the University of Murcia and the Technical University of Cartagena. What's more, the company TRAGSA is carrying out the scientific and technical assistance for the implementation of the board of directors in our coastal waters.

Transnational governance;

Are you involved in thematic networks for WFD themes (CPMR...EU-MAP, working groups...);

Yes, we are taking part in the working groups of intercalibration in the biological elements defined in the Water Framework Agreement.

Are you involved in thematic projects (EU MAP) and how would you describe the sustainability of the network at the end of the projects

No.

Are you involved in inter-regional or inter-state agreements for WFD theme?

No.

PART 2: OPERATIONS

1 - Have frameworks been developed for water planning been drawn up in your river basin district? Are there river basin management plans?

The current basin plan is from 1998 and its content is available in [Documentos completos > Plan de cuenca > Planificación > Confederación Hidrográfica del Segura](#). The new planning process is being developed with the *Reglamento de Planificación Hidrológica*, approved by RD 907/2007, of July 6 and the *Instrucción de Planificación Hidrológica* (Order ARM 2656/2008), whose references are in the

Directiva Marco del Agua. The new Plan Hidrológico de la Cuenca del Segura is at the stage of development and the different agencies involved are participating in its writing through some sectoral forums with the coordination of the Confederación Hidrográfica del Segura.

- 2 - Has there been any kind of initial survey with regard to water planning in your river basin district? What framework or tool has been used for this?

Essentially, the initial study specifically developed in relation to the Planificación Hidrológica (Water Planification) and with the Directiva Marco del Agua (Directive establishing a framework for Community action in the field of water policy) has been the report on the articles 4.5 and 6 of this directive, that can be found at the link [informearticulos567 > Implementación de la DMA > DMA > Planificación > Confederación Hidrográfica del Segura](#). In the same way, the *Esquema de Temas Importantes* (Outline of Major Issues) has been the subject to public information and reported to the *Consejo del Agua*, and that is in the absence of conformity by the *Comité de Autoridades Competentes*.

- 3 - What is the current status of the planning process in your region? Has it finished?

Currently the Draft of the Basin Plan is completed and it is expected to be under public information in a short time.

- 4 - Are the WFD implementation deadlines being met? What operational difficulties have been encountered?

The more relevant deadlines for the implementation of the Directiva Marco del Agua are available in the link [procesodeimplementacion > Implementación de la DMA > DMA > Planificación > Confederación Hidrográfica del Segura](#). The most difficult demand to achieve will be the good condition for 2015. In fact, an outline of the Plan provides the establishment of the deferrals planned by the Directive to extend this deadline. With regard to the major challenges, we must emphasize the coincidence of competences and the financing.

- 5 - Have the river basin district(s) which your region belongs to been the subject of a study regarding the impact of the pressures of human activity on the water in the maritime and port areas?

Yes, the CEDEX carried out the study of pressure-impacts on the masses of coastal water in the Region of Murcia. Afterwards, in the year 2009, the *Sección de Medio Acuático* of the *Dirección General de*

Planificación, Evaluación y Control Ambiental corrected and changed some of the informations provided by the CEDEX in its study.

6 - Does your region have a register of the maritime protected areas? What kind of control is carried out on them?

Yes, there are three marine protected areas match with immersed LIC, Franja Litoral Sumergida de la Región de Murcia, Mar Menor y Medio Marino, with the link [Dirección General de Patrimonio Natural y Biodiversidad - Lugares de Importancia Comunitaria \(LIC\)](#).

7 - Does your region differentiate between bodies of coastal water depending on their chemical or ecological state? Are the waters in port areas given special consideration?

Yes, the masses of water are differentiated, other than in a number of factors and parameters of the *Directiva Marco del Agua*, by their ecological status. The waters in the port of Cartagena (dock of Cartagena and Escombreras) are treated as masses of water very modified, and parameters and limits to establish their ecological potential is different from that used to establish the rest of the masses of coastal waters.

8 - Has your river basin district taken part in intercalibration¹ exercises for its coastal waters? Does your river basin district belong to a network of intercalibration points?

Yes, the Comunidad Autónoma de la Región de Murcia, through the *Sección de Medio Acuático* of the *Dirección General de Planificación Evaluación y Control Ambiental*, is actively participating in the second stage of intercalibration in the eco-mediterranean region. In fact, co-ordinates the intercalibration work of the metrics based on the group of benthic macroinvertebrates of coastal waters. The *Estaciones de la Red de Vigilancia del Litoral de la Región de Murcia* are being used as intercalibration points in the second stage of this process.

9 - In your district, has any network been set up to monitor the chemical quality of coastal waters and their ecological potential? If so, specify its structure.

Yes, there is a network monitoring the coastal water quality in Murcia. In the year 2009-2010 were sampled 67 stations. More information about the results of the network can be found at the link [Medio Acuático](#)

¹ For the purpose of the project, only the geographical intercalibration group in the Mediterranean will be taken into account.

10 - What parameters are considered by the monitoring networks? How often does monitoring take place?

In the following table we detail the parameters measured in the shoreline monitoring network in the Region of Murcia and their frequency:

Parameters	Periodicity
<p>Matrix of Water <i>Temperature, salinity, Cloud, transparency, pH, DBO5, Suspension solids, ammonium nitrate, nitrite, nitrate, orthophosphates, total nitrogen, phosphorus, silicates, dissolved oxygen (mg/l y % saturation), clorofila a, coliformes totales</i></p> <p>Sediment</p> <ul style="list-style-type: none"> ▪ <i>Potencial redox</i> ▪ <i>Total carbonates</i> ▪ <i>Nitrates, total Kjeldahl nitrogen, total phosphorus</i> ▪ <i>Organic materia</i> ▪ <i>Total organic carbon</i> ▪ <i>% Thin fraction less than 63 micras, particle distribution</i> ▪ <i>Visual description of the sedimen (color, consistency, texture, etc.)</i> 	<ul style="list-style-type: none"> • Quarterly • Monthly at the Mar Menor ▪ Annual
<p><i>Priority Substances and specific pollutants listed in the Annex I</i></p>	<ul style="list-style-type: none"> ▪ Monthly
<p>At the stations in the so-called bathing water should also be measured <i>intestinal enterococci, Escherichia coli</i> during the bathing season</p>	<ul style="list-style-type: none"> • Monthly since 1 July to 30 September
<p>Phytoplankton study</p>	<ul style="list-style-type: none"> • Biannual (spring and autumn)
<p>Benthic macroinvertebrates study</p>	<ul style="list-style-type: none"> • Annual (summer)
<p>Benthic macroseaweed</p>	<ul style="list-style-type: none"> • Annual
<p>Study of the meadow of <i>oceanic Posidonia</i></p>	<ul style="list-style-type: none"> • Annual

11 - Are the following issues monitored in coastal and port waters in the geographical district in which your region is located?

(next page)

<p>a) State of biodiversity</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes, partially <input type="checkbox"/> No</p> <p>If so, what kind of monitoring: Operational Monitoring</p>
<p>b) Disturbance of marine ecosystems, the presence of foreign species</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> Yes, partially <input checked="" type="checkbox"/> No</p> <p>If so, what kind of monitoring:</p>
<p>c) The commercially exploited fish and shellfish populations.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> Yes, partially <input checked="" type="checkbox"/> No</p> <p>If so, what kind of monitoring:</p>
<p>d) The stability of the sea bed</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> Yes, partially <input checked="" type="checkbox"/> No</p> <p>If so, what kind of monitoring:</p>
<p>e) Concentration of pollutants in the water</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes, partially <input type="checkbox"/> No</p> <p>If so, what kind of monitoring: Operational Monitoring close to all the waste and pollution activity points. Monthly sampling of priority substances and specific pollutants, and quarterly for other polluting substances.</p>
<p>f) Presence of marine waste</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> Yes, partially <input checked="" type="checkbox"/> No</p> <p>If so, what kind of monitoring:</p>

12 - In order to comply with the WFD planning, the ecological potential and chemical quality of the waters should be in the process of being classified. Has such classification been carried out for coastal waters, including those in port areas? If not, what is the current status of this classification?

Yes, this clasification has been already done and reported.

13 - What difficulties have been encountered in your district with regard to the implementation of monitoring networks? Technical, operational, financial...?

The difficulties found have been financial.

14 - In your river basin district, are there any special differences in the implementation of these networks for inland waters and those for territorial coastal waters? What are they?

No

15 - Is there a database which records the pressures on coastal and transitional waters, so that the bodies of coastal waters in your region can be identified and quantified? State its name and who is responsible for it.

Yes, the information is available at the page [Medio Acuático](#), and the responsible for this information is the *Dirección General de Planificación, Evaluación y Control Ambiental*.

16 - Does your region or district have a census or register of all the coastal or maritime waters from which water is taken for different uses?²

Yes, this information is included in the draft of the *Plan Hidrológico de Cuenca* that is in the process of development.

17 - Do you have any recommendations or methodologies for the integrated management of bodies of water in coastal and/or port areas in your country, region or river basin district? If so, specify the legal or administrative framework which this tool forms part of.

Yes, the *Dirección General de Planificación, Evaluación y Control Ambiental* has designed a plan for integrated environmental monitoring in the Bay of Cartagena to be implemented over 2011.

PART 3: ECONOMIC ISSUES

18 - Is there any devoted budget for the establishment of the WFD policy in your region?

Currently there is no specific budget, but the future *Plan de Cuenca* will include a budget that can be considered as specific in the implementation of the *Directiva Marco del Agua*.

19 - Has your region been the subject of an economic analysis or study concerning the use of coastal waters or those of port areas?

NO, the economic studies elaborated are focused on agricultural activity, more than in the industrial activity, but they do not give details for coastal waters.

² Industrial uses, fish farms, desalination to produce drinking water, etc.

20 - Do these studies analyze the economic impacts and how industrial development is conditioned by the requirements of the WFD regarding maintaining water quality? Specify these.

No.

21 - Have cost-benefit analyses been carried out regarding the implementation of the WFD in coastal waters? Specify which studies they are and their availability.

The *Dirección General de Planificación, Evaluación y Control Ambiental* commissioned in 2010 a study of the University of Murcia for the analysis of the cost-profit of the implementation of the *Directiva Marco del Agua* in the coastal lagoon of Mar Menor. The study has finished and is available in the mentioned *Dirección General*. On the other hand, there is an assessment of the state and financial analysis of the measures to apply for the coastal problems of the Mar Menor, Portman Bay and Escombreras Dock. [Ei Proceso > Proceso de Planificación > Planificación > Confederación Hidrográfica del Segura](#)

22 - What are the main economic barriers that have been encountered in your region or district hindering compliance with the WFD?

On the one hand, we might mention the financial and organizational aspects that have been revised. The organization of procedures for the coordination of competencies has requested new policy instruments, as well as the transposition of the *Directiva Marco del Agua*. Luckily, the structure of river basin districts (Demarcaciones Hidrográficas) is very similar to the river basins. All this, in conjunction with the new proceedings that has requested the implementation of the *Directiva Marco del Agua*, has meant an important financial effort. The greatest challenge is the implementation of the environmental objectives in the context of structural shortage, aggravated with recurrent droughts. The social impact generated by that the strict compliance or the *Directiva Marco del Agua* would be huge, which has produced the expression of deferrals in the performance. This is because the language of the *Directiva Marco del Agua* has been considered for environments of higher rainfall (North Central Europe) where the biggest problems are qualitative rather than quantitative.

Signature _____

Place MURCIA Date 1 de marzo 2011.